

STRAND  
ELECTRIC  
LONDON

Mr. Tree

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# THEATRICAL LIGHTING

August, 1945  
INTERIM EDITION

The prices quoted herein are those for 1938 and do not apply. They are printed as a guide to relative costs



**THE STRAND ELECTRIC & ENGINEERING CO., LTD.**

"Seecol" Registered Trade Mark

**FLORAL STREET, GARRICK STREET  
COVENT GARDEN, LONDON, W.C.2**

Telephone: TEMPLE BAR 7464 (6 lines)    Telegraphic Address: SPOTLITE, RAND, LONDON

Branches at

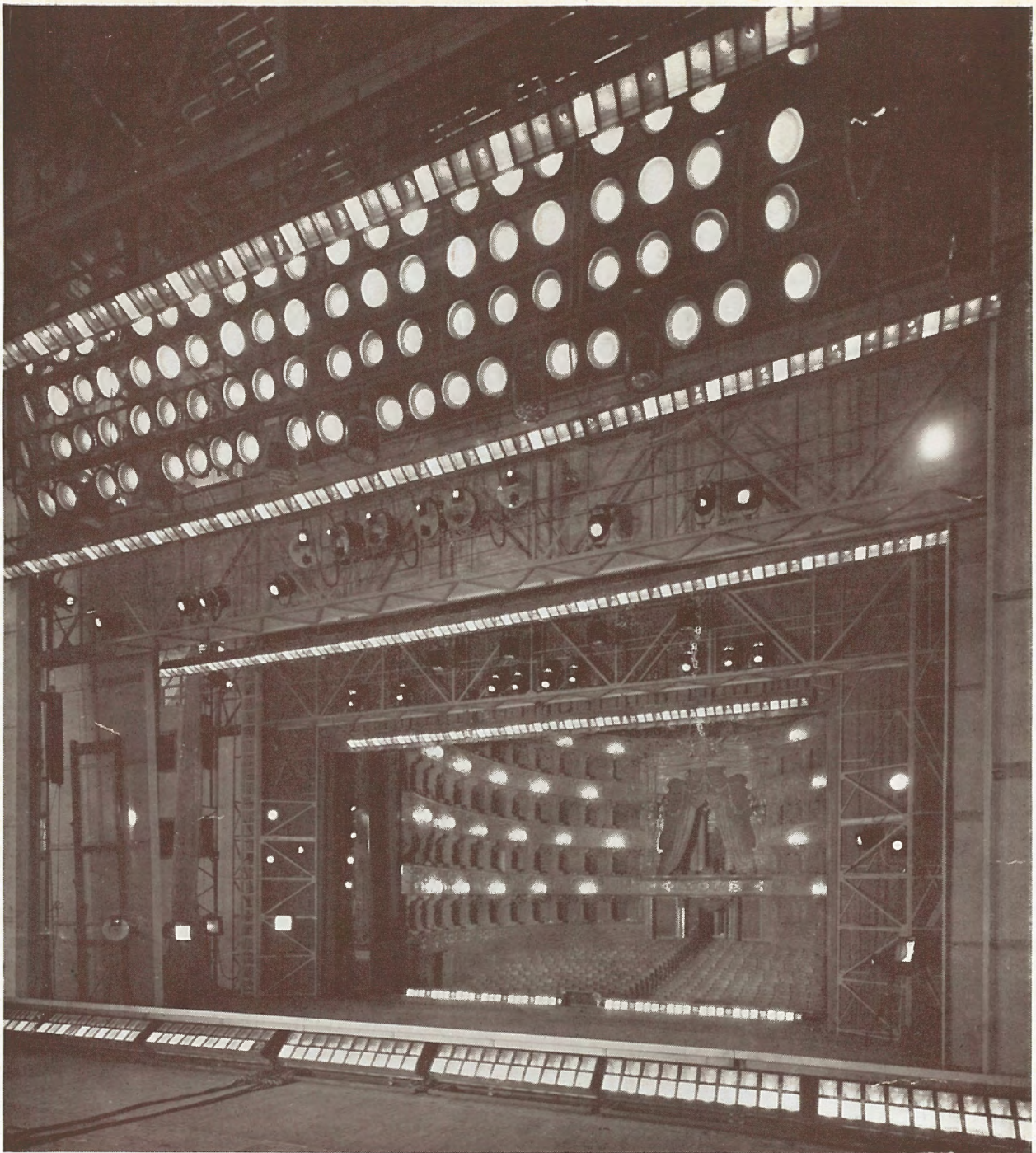
**399/405 OLDHAM ROAD, MANCHESTER**

Telephone: COLLYHURST 2927

**62 DAWSON STREET, DUBLIN**

Telephone: DUBLIN 22097





*THE NATIONAL OPERA HOUSE, S. CARLOS, LISBON, PORTUGAL*

*View from back of stage looking towards the auditorium. Complete stage lighting equipment exported and installed by Strand Electric in 1940. Magazine battens and footlight; 3-colour cyclorama bank and groundrow trucks (in the foreground); cloud effects projectors; acting area and wing floods; mirror spots on two lighting bridges; 2-kw. soft edge spots on mobile towers; boomerangs; remote colour change high-intensity F.O.H. spots concealed in auditorium cornice*

*The whole controlled from a Strand Light Console placed on a movable platform in the orchestra pit. (See pages 83-85)*



## FOREWORD

THE Strand Electric present this catalogue as an interim measure consequent on the end of the war with Germany. Except for pages 1 to 16 and 42 to 44 the catalogue is a reprint of the July, 1938, edition. As a result of the war the prices of that date need drastic revision, and are therefore printed as a rough guide only to the relative cost of one piece of apparatus to another.

Although during the war the production of the Strand Electric factory has been almost exclusively for H.M. Government, and that seldom resembling stage equipment, their connection with the theatre has been maintained, mainly through the services of their hire department.

Naturally, the best way to design and invent fine theatrical lighting apparatus is to concentrate on the task ; nevertheless, the war years have not been barren from this aspect. The shortage of materials for scenery has led to stage lighting playing a very big part in the wartime theatre. This, coupled with experience in large-scale high-grade production at the works, has enabled Strand Electric to plan some very considerable changes in design and manufacture.

In this catalogue are introduced some of the first fruits, a new range of standard magazine equipment which represents something quite new in quality production. Additions will be made as rapidly as possible, descriptive leaflets will be issued to correspond and replace obsolete ones in this catalogue.

## CONTENTS

The apparatus falls very readily into sections. These are as follows :—

- A. Footlights and Battens. Pages 9-18. (1-16 = new)
- B. Stage Floods. Pages 19-27.
- C. Focus Lanterns, Spotlights, and Accessories. Pages 28-39.
- D. Arc Spotlights and Resistances. Pages 40-48. (42-44 new)
- E. Cyclorama Lighting. Pages 49-53.
- F. "Effects" Optical and Sound. Pages 54-64.
- G. Plugs and Sockets (Dip Boxes, etc.). Pages 65-67.
- H. Dimmers and Control. Pages 68-86.
- I. Auditorium Lighting and Automatic Dimmers. Pages 87-89.
- J. Outdoor Flood Lighting. Pages 90-95.
- K. Shop Window and Photographic Lighting. Pages 96-97.
- L. Accessories (Stands, Colour Mediums, Lenses, etc.). Pages 98-102.
- M. Lamps and Carbons. Pages 103-106.
- N. Signs. Pages 107-109.
- O. Hire Charges. Pages 110-117.

Every endeavour has been made in compiling this catalogue to include all information likely to be of use, while introductory articles to each section give briefly advice as to how the apparatus in that section may best be used.



# HIRE DEPARTMENT



*Gilbert Miller's and Norman Marshall's production  
"VICTORIA REGINA" at the Lyric, London*

All the apparatus listed in this catalogue, with one or two minor exceptions, is available for hire at moderate terms. Quotations will be furnished on application. Very large stocks are held of all types of lanterns, and these are supplied complete with lamps, leads, and all accessories.

See Pages 110-117.

Strand Electric have been responsible for most of London's big productions, including "Bitter Sweet," "The Miracle," "Cavalcade," "Waltzes from Vienna," "Stop Press," "Radiolympia," "Greenwich Pageant," "Tower Pageant and Tattoo," "Pageant of Parliament," etc., etc.

Special arrangements are made for the hire of complete touring equipments, whatever their size.

## HIRE SHOWROOMS

These rooms and their precious collection have come out of the war unscathed. Indeed, the collection has been considerably augmented from the stocks of less fortunate premises.

There are to be found here electrical properties of all kinds—chandeliers and brackets of all periods, including the present day, electric-oil lamps, lanterns, gas brackets, "prop" coal fires, gas fires, electric fires, etc. A wonderful collection that has rendered invaluable service to the theatre.

## STRAND ELECTRIC DEMONSTRATION THEATRE

The new Strand Electric Demonstration Theatre opened shortly before the war was totally wrecked by a direct hit in 1941. However, until the theatre can be rebuilt a neat temporary theatre has been contrived in an adjacent building, to a smaller scale of one-quarter full size instead of one-third.

In this theatre, colour mixing, optical effects, ultra violet and Samoiloff effects, can be demonstrated on the cyclorama, curtains, and simple settings.

It is interesting to note that although the previous theatre succumbed to a direct hit, the Strand Light Console and its remote-controlled dimmer bank were recovered from beneath the ruins. These were cleaned and subsequently re-installed in the London Palladium, where they have been operating the stage lighting twice daily ever since (over three and a half years).

Seeing that the particular console, relays, magnetic clutches, etc., were more than seven years old at the time they were blitzed, it is a tribute to the robustness and durability of Strand Electric remote control.

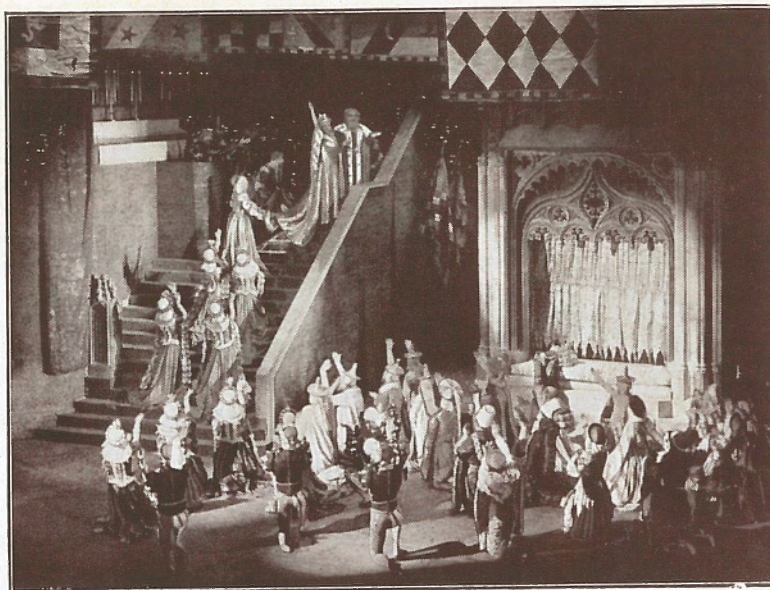
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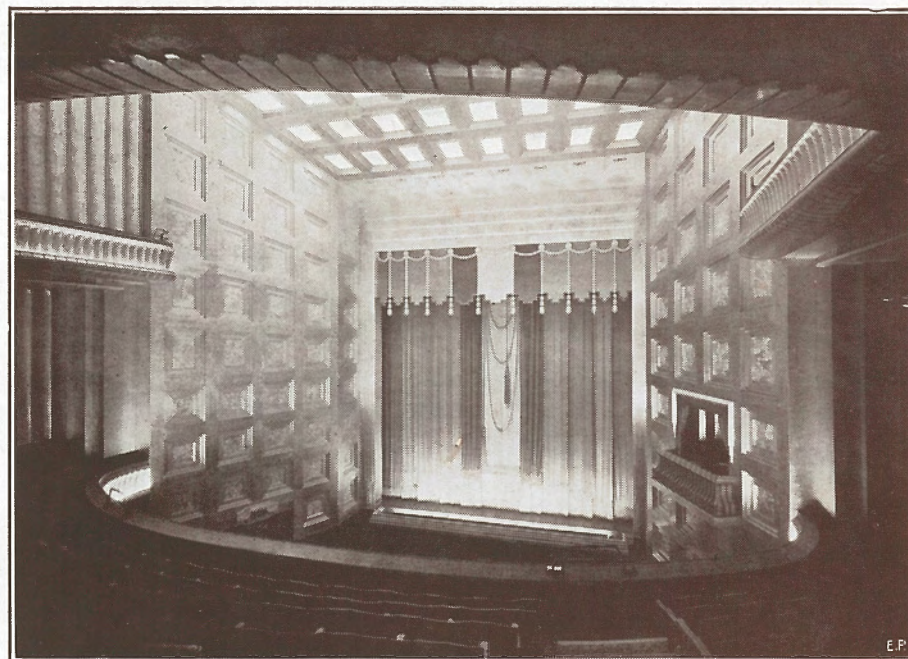
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# THEATRICAL LIGHTING by STRAND ELECTRIC



C. B. COCHRAN'S "MIRACLE" AT THE LYCEUM THEATRE, LONDON  
*The most Elaborate Piece of Stage Lighting yet attempted on the London Stage. Installation and Equipment by Strand Electric*



"SAVOY" THEATRE, LONDON  
*Complete Electric Installation by Strand Electric*

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# THEATRICAL LIGHTING by STRAND ELECTRIC



THE ROYAL ALBERT HALL, LONDON

*Strand lighting for concert platform and arena. Lighting installations for the boxing ring and for the patriotic spectacles in this hall, a feature of wartime London, were and are supplied by Strand Electric*



THE TROCADERO RESTAURANT, LONDON

STRAND LIGHTING FOR MR. C. B. COCHRAN'S CABARETS

*Strand Remote Colour change Mirror Spots are mounted on bridge. This bridge can be raised, making a complete ceiling when the lighting is not required. The stage (right) is provided with the usual Strand Equipment*

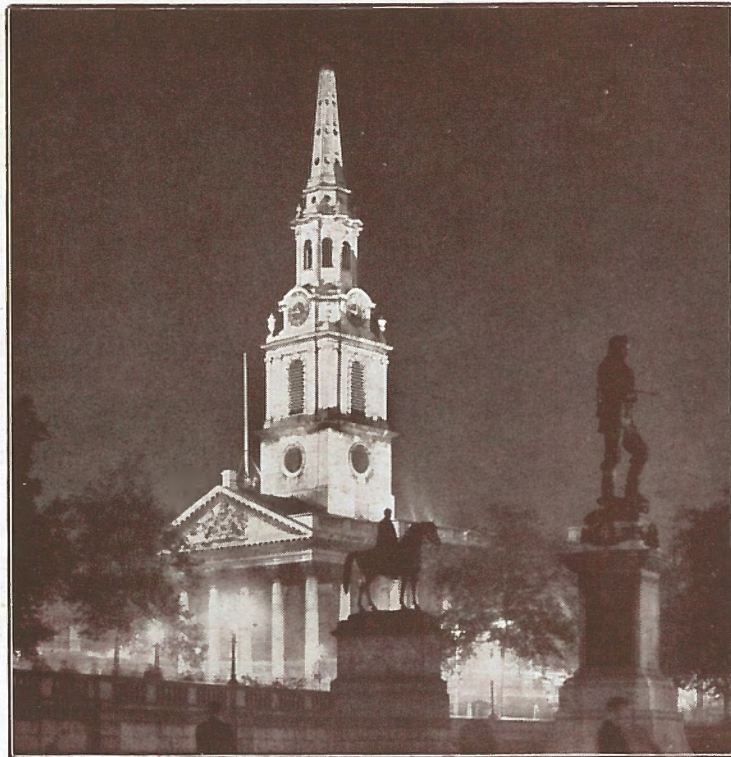
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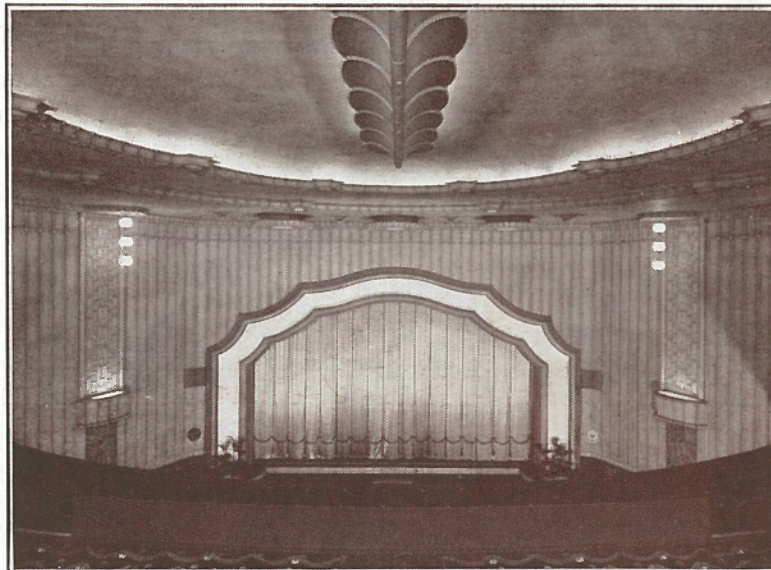
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ST. MARTIN-IN-THE-FIELDS, LONDON  
*The Famous Broadcast Church Floodlit by Strand Electric*



GAUMONT PALACE CINEMA, CHELSEA, LONDON  
*One of many Gaumont British Houses with Strand Electric Stage Lighting Equipment*

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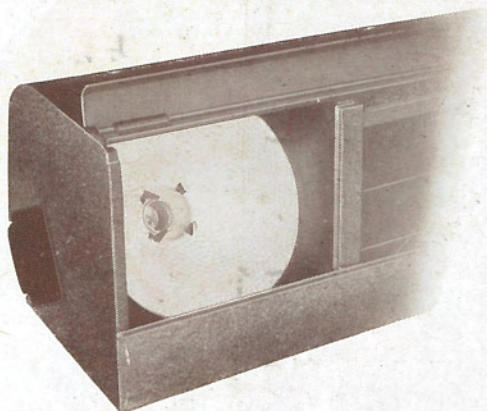
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# STRAND STANDARD APPARATUS ★

In this edition (August, 1945) of the catalogue Strand Electric introduce the first examples of their new standard apparatus. The apparatus combines the latest scientific and engineering developments with right up-to-date manufacturing technique.



This involves tooling up for large-scale production of the apparatus in question, and consequently reduction in the number of types to be stocked.

Such rationalisation was first applied to footlights and battens, with outstanding results. Prior to the war Strand Electric had in common demand 14 types of magazine equipment to cope with customers' individual tastes in footlights, battens, groundrows and hanging lengths.

By careful design it has been possible to reduce all these to two types of housing and two types of reflector. The housings are A, the footlight; B, the hanging-batten type. Minor attachments enable A to be used as mobile

groundrow and B as hanging lengths. Two standard reflectors, a WIDE angle and a MEDIUM angle, are interchangeable between the two housings, giving flexibility of application. Other items such as colour frames and connector blocks are common to both housings.

In the main this result has been achieved by abolishing the choice of compartment centres previously available—6, 7, 8 and 9 inches. Calculation and practical tests have shown 9-in. centres to provide the best results; for at these centres a large diameter really efficient reflector becomes possible.

Since there are now only two housings to make, manufacture can be to an engineering specification of the highest order.

Up to the time of going to press these rational principles have been applied to dimmers as well as footlights and battens. The requirements of nine different plate dimmers are now met by one standard dimmer assembly with minor modifications to cope with the large range of wattages needed. The new standard dimmer has a cleanness of design and finish hitherto uneconomic to produce, and in addition the weight has been halved.

On this new standard dimmer a new range of standard dimmer boards is to be based, and it is hoped to have these in production in a few months' time.

Standardisation will be extended to other Strand apparatus as time and conditions permit, though, of course, not every item in the range will be suitable for this treatment. Meanwhile, such standard apparatus will be identified by a ★.

Although Strand Electric will continue to make and design special apparatus, and even special forms of standard apparatus to customers' requirements, they are strongly recommended to use Standard Apparatus ★ in preference to special designs. Strand Standard Apparatus is the fruit of three decades of practical stage experience in a right up-to-date design. Further, such apparatus is available from stock, as are prices and drawings; the minimum delay being involved on all counts.

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7th June 19 46

To Mr. Martin (Stage Furnishings)

From Mr. Applebee.

Subject

Our Research Dept. have been making photometric tests in regard to standard Lamps and the Theatre Batten type Lamps for the "S" type Battens and Footlights. From the graphs that they have obtained it would appear that ordinary standard Lamps may be used with very little loss of efficiency in a number of cases. From information I have set out the data below.

60 watt Lamps.

With a wide angle reflector it would appear that there is a fraction more light from the standard 60 watt Lamp than that given by the Theatre Batten type Lamp, there only being a slight concentration of light in the centre of the beam angle, it is therefore recommended that wherever 60 watt Lamps are used which will probably be mainly in Schools and small Stages that as regards the wide angle reflector 60 watt Lamps should be used in preference to the Theatre Batten Lamps not only from the efficiency point of view, but also as regards cost. As regards the narrow angle reflector with the standard Lamp there is a very big increase of light with a standard Lamp in the centre of the beam, but the beam angle is cut down considerably, in the event therefore of 60 watt being used in Battens although the beam angle is reduced I am still of the opinion that the standard Lamp should be used.

100 watt Lamps.

With regard to the 100 watt Lamp it would appear that the wide angle reflector there is a slight increase of lumen output, and also a slight decrease in the beam angle when the standard 100 watt Lamp is employed, and therefore the suggestion is that for non pucker Theatre jobs that the ordinary standard

60 watt

Standard  
for wide  
angle  
reflectors.Standard  
for wide  
angle  
reflectors.



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Lamp could very well be employed. As regards the narrow angle reflector the same applies.

150 watt Lamps.

Use better type lamp

In this case the Osram Theatre Batten Lamp is superior with wide and narrow reflector, and is therefore strongly recommended that only the Osram Theatre Lamps should be used.

*As above*

.....

Re. Lamp type

ordinary / as batten

60 watt ordinary, for wide and narrow reflectors

100 watt ordinary, in narrow angle reflector

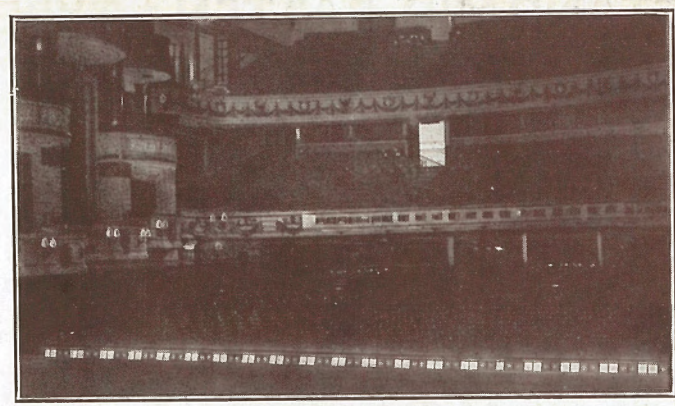
150 watt batten type lamp, used.



# STRAND FOOTLIGHTS and BATTENS

Periodically during the last decade or so learned pronouncements have abolished footlights and battens. It is now generally agreed that a footlight is essential to provide facial correction for actors down stage; although gear may be fitted to "disappear" it on occasion.

Magazine battens have taken on a new vitality as composite battens; six-foot lengths with acting area floods or spots in between. Their main duty being to project a wash of light to soften the heavy accents from spots and floods and other directional lighting.



*Strand Footlight, Drury Lane Theatre, London*

Strand Electric claim to have manufactured the first magazine battens in this country, over 24 years ago, for the original application of switchboard-controlled stage colour lighting—the Samoiloff Effect. The same battens are still in use at the London Hippodrome.

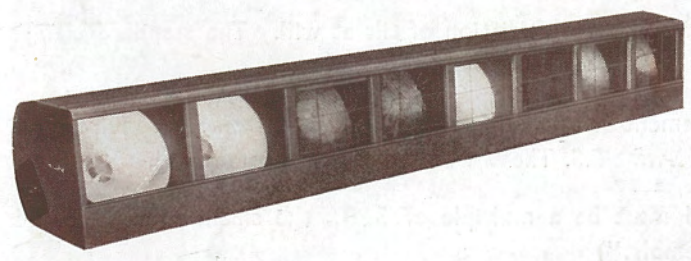
## STANDARD FOOTLIGHT \* Type "S." 60, 100, 150 watt

An entirely new design incorporating a large diameter circular silvered Sunray glass reflector of great efficiency. This footlight gives an even WIDE angle 85° beam of light free from hot spot or any filament striation.

Actors down stage, where footlight correction is most needed, are evenly lit. Up stage the light is of low intensity to obviate shadows on cyclorama or backcloth; nevertheless, when positioned as shown on page 14, there is no troublesome rising shadow.

The light will travel well up the "house tabs" even when as close as 3 ft., but the cut off will prevent light leakage on to the pelmet, sides of proscenium arch, or out into the auditorium.

The footlight presents an unbroken surface to the audience, ample baffled air outlets and inlets being on the stage side. These are arranged to let a current of air pass between lamp and colour medium, thus preserving the latter's life.



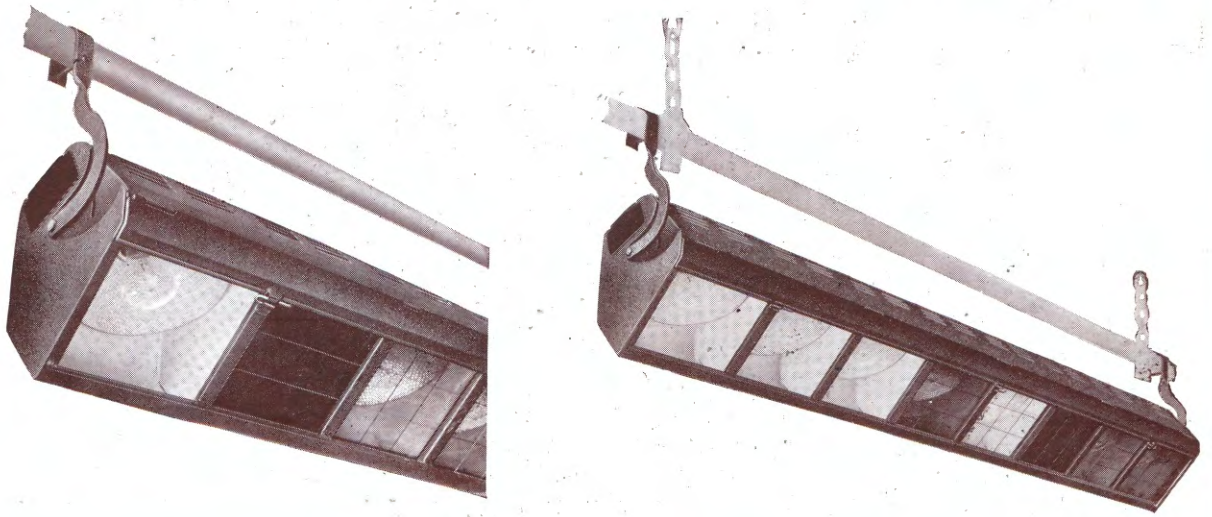
The housing is very strong, though light in weight, and rests direct on the floor. It can readily be used as a lift or revolve type disappearing footlight.

Standard footlights will be wired in any arrangement of colour and sub-circuits to customers' requirements without extra charge. Either 60, 100, or 150-watt E.S. Theatre Batten lamps may be used.



# STRAND FOOTLIGHTS and BATTENS

## STANDARD BATTEN \* TYPE "S." 60, 100, 150 Watt



An entirely new design based on a 9-in. compartment in which either a MEDIUM angle or WIDE angle reflector can be inserted at will and without loss of efficiency.

The MEDIUM angle reflector is standard for most general purposes. This reflector projects a 55° beam on the acting area below, while the direct light of the lamp provides low-level illumination for the neighbouring border.

The reflector is of silvered Sunray glass giving a soft edge to the main beam, preventing a hard defined line or any filament striation when used to light a backcloth.

For small stages and cycloramas where coloured light is required to mix at close range, the WIDE angle reflector described on the previous page for footlight should be specified.

The housing and assembly is of very strong and rigid construction, though light in weight. The shape and surfaces are designed to cause hanging scenery to slide off without damage to itself or the batten. Colour frames are securely fastened so that on no account can they fall out.

Ventilation is arranged to let a current of air pass right through the housing, thus cooling the colour mediums and preserving their life. All vents are properly baffled to prevent light leakage.

Batten is supplied complete with hanging arms allowing variation of tilt at will. The standard clamps on these arms are for 1½-in. gas barrel.

Standard battens will be wired to any arrangement of colour and sub-circuits to customers' requirements without extra charge. Either 60, 100, or 150-watt E.S. Theatre Batten lamps may be used.

The length of footlight or batten ordered must be a multiple of 3 ft., the smallest unit stocked. (See page 13 under "Transport and Assembly.")

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# STRAND MAGAZINE EQUIPMENT

## STANDARD GROUNDROW \* TYPE "S." 60, 100, 150 Watt

The standard Footlight can be used without alteration as a groundrow, to light a cyclorama for example ; the WIDE angle reflector A.235 being retained. The unit may stand direct on the floor of the stage or lighting pit. 6-ft. lengths can easily be struck by lifting away.

Castor attachments can be fitted to turn the lengths of groundrow into mobile trucks. Four of these castor attachments are used to a 6-ft. length, six to a 12-ft. length ; 12-ft. lengths on castors are convenient for most stage purposes, being very readily moved and halving the amount of plugging up to be done.

For large cycloramas a double row of compartments is necessary and special brackets can be supplied to enable two lines of groundrow to be mounted one over the other.

## DISAPPEARING FOOTLIGHTS

In Repertory Theatres, etc., where the float may not be required for all the scenes in a production, or where an extension "Fore Stage" may be used, it is of great value if the footlight can be made to disappear.

Strand Electric have designed two types of apparatus for use in these situations. In both cases the float discreetly vanishes, leaving the flat stage. The revolving type is more usual where the apparatus is hand operated ; such a footlight (the first installed in England) may be seen at the Arts Theatre Club, London ; while the lift type is motor driven, as at Drury Lane Theatre. It is also used at the Regal Cinema, Edmonton, in conjunction with the orchestra lifts, so that the orchestra can be converted into a "Fore Stage," thus giving a stage 55 ft. deep.

Our Theatre Lighting Department is prepared to advise and quote on receipt of plans or other details.

## HANGING LENGTHS \* TYPE "S." 60, 100, 150 Watt

Hanging lengths are of two main kinds, proscenium strips on either side of the stage, and short, portable lengths arranged to hook on to the scenery to light backings to doors and windows. The former are almost obsolete, but if required Standard Batten with MEDIUM angle reflectors may be used vertically. For the latter, 6-ft. lengths with WIDE angle reflectors wired 2 or 3 colours and fitted with special hooks are convenient.

## STANDARD BABY FLOODS. \* 60, 100, 150 Watt

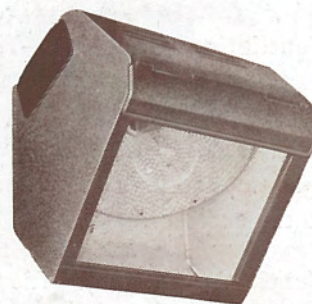
Although these floods will find many uses in the commercial theatre, they have been devised particularly with the amateur and school stage in view.

There are three stock types ; the single, double, and triple unit. The units are identical in size and specification to a single compartment of Standard type "S" batten.

The WIDE angle or the MEDIUM angle reflector may be used, and a cut-off attachment can be fitted in the colour runners reducing the cut-off angle to 55°, the same as the latter reflector ; a Baby Acting Area flood, in fact.

The double or triple units will be found convenient where colour mixing is desired.

Strand single unit Baby floods have a single suspension arm attached to the unit by locking wheel giving directional adjustment, the other end of the arm is fitted with a 1/4-in. bolt. The double and triple units have two suspension arms. 2-ft. flexible tails with earthing lead are provided.



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# STRAND FOOTLIGHTS and BATTENS

## SPECIFICATION TYPE "S"

**Optical System.**—WIDE angle reflector A.235, 8½-in. diam. circular in silvered Sunray glass. Designed to give a symmetric WIDE angle crossing beam of even spread, free from hot spot and filament striation. Beam angle 85°. Vertical cut-off from a footlight compartment 85°.

MEDIUM angle reflector A.236, 8½-in. diam. similar to the above. Designed to give a symmetric MEDIUM angle crossing beam free of striation. Beam angle 55°. Vertical cut-off from a batten compartment 102°. The reflectors are accurately located by their centre hole in a four-point 26-gauge spring steel pressing (spider) nickel plated to prevent rust. These spiders are mounted at 9-in. centres.

Reflectors are interchangeable between footlight and batten ; but WIDE angle A.235 is recommended for all footlight and groundrow work, also for cyclorama and small stage battens where quick spread at close range is needed. MEDIUM angle A.236 is supplied as standard for general stage battens, the reflector projecting a beam on the actors below while the direct light of the lamp lights the neighbouring border ; batten compartments are stoved white inside to help the latter. Footlights are matt black inside to prevent diffusion of stray light into auditorium and on to the pelmet or proscenium.

**Lamps.**—60, 100, or 150-watt E.S. cap Theatre Batten lamps must be used for best results. In these lamps the filament centre is the same in all three wattages, thus ensuring that the reflector will always be in focus without adjustment.

**Construction.**—The housing is a 20-gauge sheet steel trunking formed in one piece to include the wiring trough ; the bottom has a deep return, which in the case of the footlight will prevent dust being swept into it. The housing is divided into compartments at 9-in. centres.

Compartment partitions are 22-gauge steel pressings having a continuous flange for strength and attachment, being spot-welded into position. The colour runners are integral with the partitions and take the form of a double return, placing the runners of adjacent compartments behind each other. This formation gives great strength and also has the effect of halving the obstruction between compartments. The ends are 20-gauge steel pressings having a continuous flange and are arc-welded into the main trunking.

The entry to the colour runners is closed by a hinged lid which rests on the runners ; U fasteners are fitted to batten lids. The shape and surfaces are designed to cause hanging scenery to slide off without damage to itself or the batten. There is ample strength to allow comedians to indulge their habit of standing on the footlight.

Hinges and lids are light-tight, as is each compartment in respect of its neighbouring compartments.

**Ventilation (Footlight).**—The air outlets and inlets are provided as clearances between the top and bottom of the housing and the colour frames, which are formed with legs to act as stops. The placing of adjacent runners behind each other, angles each colour frame to the front of the footlight, ensuring air clearance in the horizontal plane. The returns on the lid and on the bottom of the housing form light traps to the air inlet and outlet. This system enables the footlight to present an unbroken surface to the audience.

**Ventilation (Batten).**—The air inlets are formed top and bottom of the colour frame as in the footlight. The outlet is formed by louvres punched on either side of the housing near the top.

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# STRAND FOOTLIGHTS and BATTENS

## SPECIFICATION TYPE "S" (continued)

**Colour Frames.**—These are made of 26-gauge tinsplate soldered together. Two horizontal and two vertical guard wires are fixed to each frame. The colour frames for both footlight and batten are identical and take Chromoid or Gelatine colour mediums cut to 8 in. by  $9\frac{1}{4}$  in.

**Wiring.**—Lampholders are best quality porcelain Edison screw batten type and are carried on the wiring trough. The wiring is carried out in coloured Rockbestos flex for easy circuit identification. The ends of the trough are closed by aluminium castings in which provision is made for the ready attachment of buahes or flexible metallic hose. For short lengths of batten or footlight 2-ft. tails are usual.

Where lengths are for assembly into a full-length batten or footlight multi-way terminal blocks are fitted in one end of wiring trough to suit the stage wiring layout. Wiring trough is fitted with removable lid, and battens are further fitted with multi-core cable clamp at the terminal block end. Number of colour and sub-circuits to customers' requirements and to comply with I.E.E. regulations.

**Finish.**—Stoved black crystalline enamel outside. Interior and colour frames stoved matt black; the interior of batten is stoved white enamel.

**Weight.**—Footlight with reflectors and colour frames ... 6-ft. length 49 lbs.      3-ft. length 25 lbs.  
 Batten with reflectors and colour frames ... 6-ft. ,, 58 ,,      3-ft. ,, 30 ,,

**Fixing (Footlight)**—Rests flat on the floor. For best results the ramp and position relative to stage floor shown on page 14 should be adopted. This position prevents a rising shadow from filament or reflector being cast stagewards. The shape of the ramp obviates light diffusion therefrom into the auditorium, and leaves space for Float spots.

**Suspension (Batten).**—Arms are pivoted to the batten endplates at the centre of gravity. A bolt positively locates and locks the batten at any desired angle. For most normal work in conjunction with the MEDIUM angle reflector the position shown on page 14 is recommended. The standard termination to suspension arms is a clamp to fit  $1\frac{1}{2}$ -in. gas barrel. Extension arms are available, where lanterns are interposed between lengths of batten, to bring the lower edge in one line.

**Transport and Assembly.**—Footlight and Batten is stocked in 6-ft. and 3-ft. lengths. Two 6-ft. lengths can travel bolted together as a 12-ft. unit. Thus a footlight 36 ft. long can be dispatched wired as a whole, but folded as three 12-ft. lengths. A batten can be dispatched similarly and finally bolted together as one unit on site.

**Batten Pilots.**—An extra holder for a 60-watt lamp is fitted in two or more white circuit compartments per batten. Such extra lamps do not interfere with the normal light distribution from the reflector.

**Maintenance.**—To obtain best results the footlight and batten must be cleaned regularly. The absolute minimum is a thorough dusting and polishing of each lamp and reflector in position once a month. The large compartments allow easy access for this purpose. Twice a year the reflectors and lamps should be removed, washed with soap and water, then polished.

Theatre Batten lamps, like all general service lamps, have a life of 1,000 hours. After this time the lamps give less and less light, becoming yellower in colour. At the same time as cleaning takes place, lamps should be examined for age; the cue to discard ought not to be sudden extinction of the lamp.

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# STRAND FOOTLIGHTS and BATTENS

## NOTES ON THE DRAWINGS

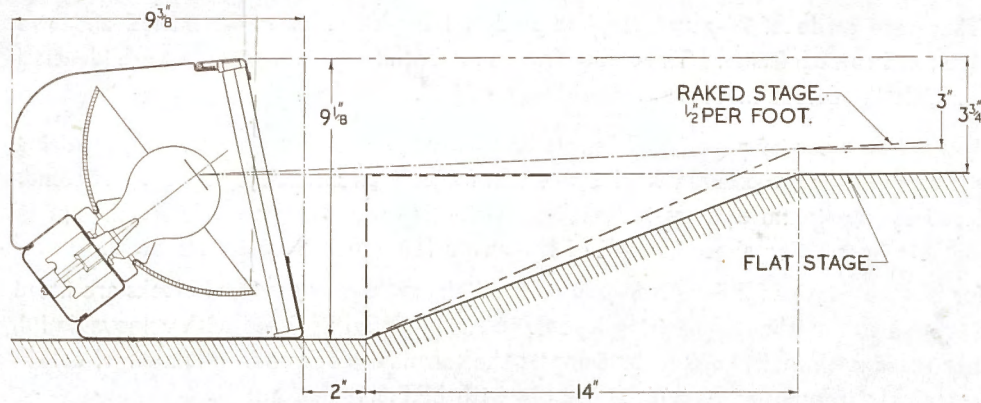


Figure 1

Figure 1 shows a sectional view of a Type "S" Standard Footlight together with recommended ramp. This ramp will be able to accommodate Float Spots when required, and should be finished Matt Black. For stages where space is an important consideration the ramp may be omitted and the stage floor brought to the position shown by the forward dotted line. This dotted line also gives the relationship of stage front where the footlight may be bracketed from the front of the stage as is the case in temporary installations. There is no obstruction to the footlight beam in either case.

Figure 2 is a sectional view of a Type "S" Standard Batten, the hanger shown is the standard fixing for use on a 1 1/2-in. Gas Barrel. An alternative hanger is shown dotted; this terminates in a shackle and is supplied on request for stages where limited height is available. Both hangers provide variation in angle of Batten.

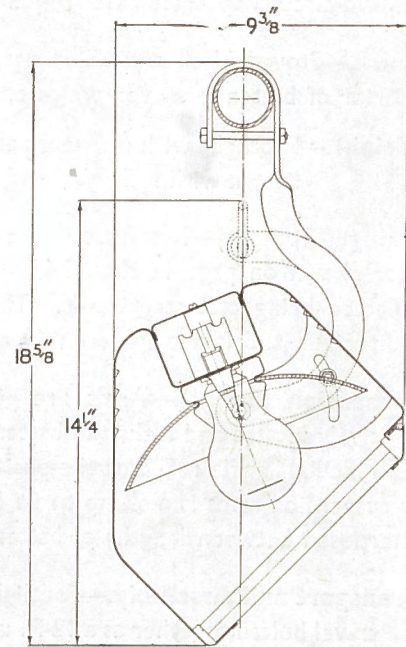


Figure 2

Figure 3 is a sectional view showing beam and cut-off angles from Standard Battens. The Type "S" Batten on the left is fitted with the Medium Angle Reflector, and is so hung as to project the 55° main beam on to the acting area while the low intensity direct light is available for border illumination. The light from the main beam does not, however, terminate in a hard line, as the diagram would suggest, but gradually merges from the higher intensity into the lower.

The Type "S" Batten on the right is fitted with the wide angle reflectors and tilted to light a flat cyclorama. It is important that whenever colour mixing is required the equipment is at least three feet from the cyclorama, but six feet is recommended.

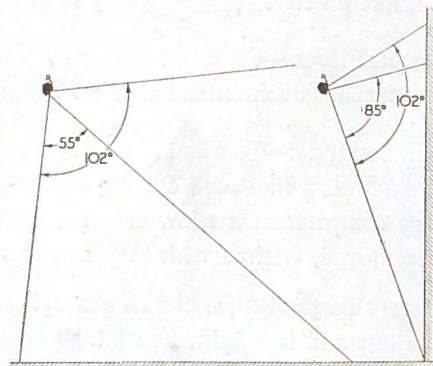


Figure 3

Telephone :  
Temple Bar 7464 (6 lines).

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**FLORAL STREET, COVENT GARDEN, W.C.2**

Telegraphic Address :  
Spotlite, Rand, London.



# STRAND FOOTLIGHTS and BATTENS

PRICES ON APPLICATION

**STANDARD FOOTLIGHT.** "S" type, complete as specified on pages 12 and 13, with A.235 Wide angle reflector, colour frames, wired in any colour and sub-circuits. Excluding lamps and colour mediums.

Per 12-ft. length, 16 compartments	...	...	...	...	...	...	...	...	...	£
6-ft. " 8 "	...	...	...	...	...	...	...	...	...	£
3-ft. " 4 "	...	...	...	...	...	...	...	...	...	£

**STANDARD GROUNDROW.** Use footlight above with A.235 reflector. Castor brackets to convert into mobile groundrow.

Per pair fitted	...	...	...	...	...	...	...	...	...	£
Two pairs (4) are required to a 6-ft. length, three (6) to a 12-ft.										

**STANDARD BATTEN.** "S" type, complete as specified on pages 12 and 13, with A.236 Medium, or A.235 Wide angle reflector, colour frames, suspension arms and barrel clamps, wired in any colour and sub-circuits. Excluding lamps and colour mediums.

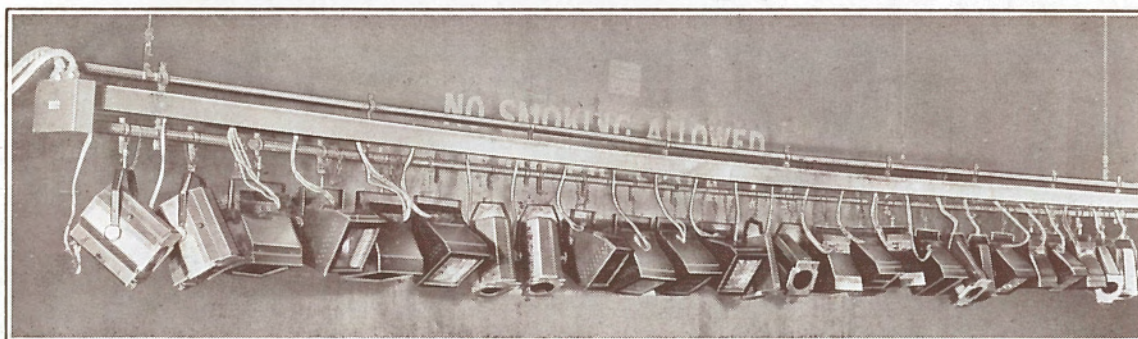
Per 12-ft. length, 16 compartments	...	...	...	...	...	...	...	...	...	£
6-ft. " 8 "	...	...	...	...	...	...	...	...	...	£
3-ft. " 4 "	...	...	...	...	...	...	...	...	...	£
Batten Pilots, per holder fitted and wired	...	...	...	...	...	...	...	...	...	£

**STANDARD BABY FLOODS.** Complete as page 11, with A.235 Wide or A.236 Medium angle reflector, colour frame, suspension arm, wired 2-ft. tails. Excluding lamps or colour mediums.

Single Unit	...	...	...	...	...	...	...	...	...	£	each.
Double Unit (two circuits)	...	...	...	...	...	...	...	...	...	£	"
Triple Unit (three circuits)	...	...	...	...	...	...	...	...	...	£	"
Cut-off Attachment, to fit above	...	...	...	...	...	...	...	...	...	£	"

**COLOUR MEDIUMS.** Cut to 8 by 9½ inches to fit all apparatus on this page.

Gelatine, any colour except frosts	...	...	...	...	...	...	...	...	...	per dozen.
Chromoid, colours and frosts	...	...	...	...	...	...	...	...	...	"
Extra metal colour frames	...	...	...	...	...	...	...	each or	...	"



Part of No. 1 Batten—Covent Garden Opera House

## STRAND SPOT AND FLOOD BATTENS

The Spot Batten is very much in favour at the moment, and on most modern stages at least No. 1 Batten takes this form. Some idea of the utility of these battens is given by the fact that with the exception of one scene the whole of Mr. Clifford Whitley's "Stop Press" was lit by Mr. Hassard Short from Spot Battens.

The photograph above is of No. 1 Batten at the Covent Garden Opera House, of which the following is the specification:— "No. 1 Batten consists of 48 ft. 1½ in. gas barrel, to which is fixed with 'L' clamps twelve Pattern 43A 1000 watt Batten Spot Lanterns (see page 32), and twenty-four Pattern 30 500 watt Flood Lanterns. Barrel complete with ten clamps to connect on to counterweight rods. On these clamps is fixed a sheet steel trough, carrying the Rockbestos wiring. The Pattern 30's are wired in pairs in the centre and four to each colour on the ends. The Spot Lanterns are wired with a separate circuit to each. The whole of the wiring terminates in a sheet steel twenty-way connector box at 'Actor's Left' end of batten. Box fitted with two cable grips for the asbestos covered multiple cables feeding batten."

Prices for Spot Battens will be forwarded on receipt of customers' requirements.

Telephone:  
Temple Bar 7464 (6 lines).

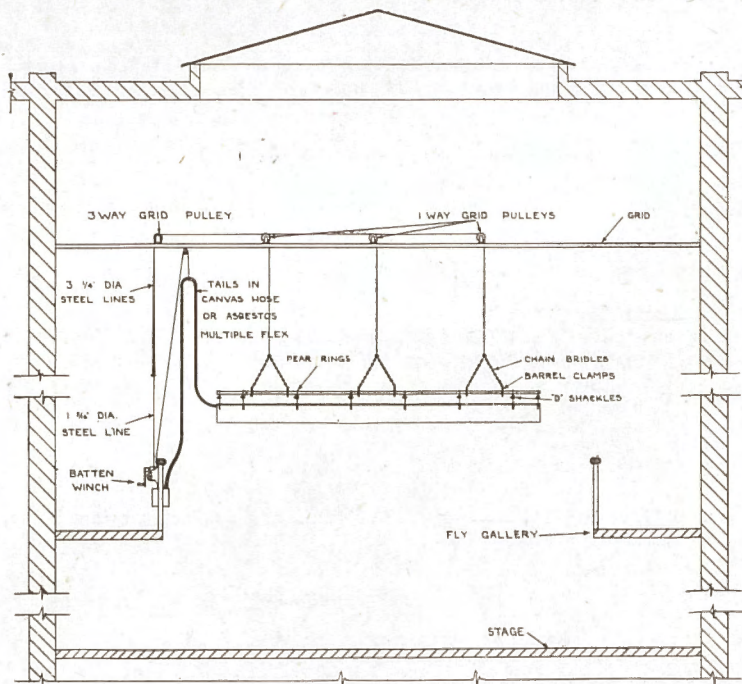
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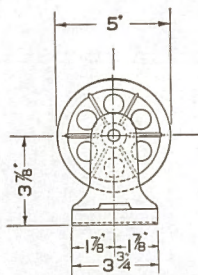
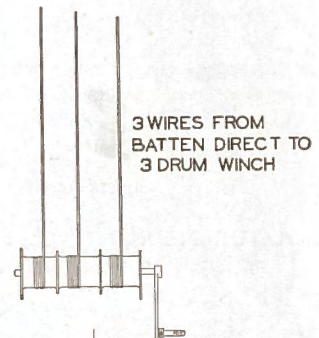
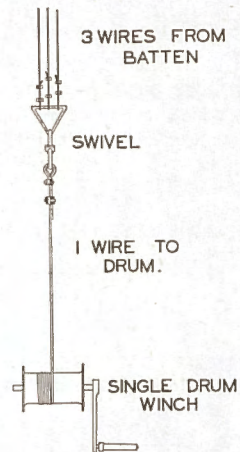
**FLORAL STREET, COVENT GARDEN, W.C.2**



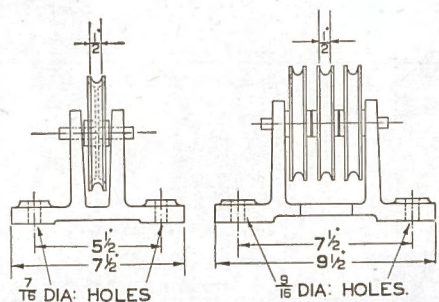
# STRAND BATTEN SUSPENSION



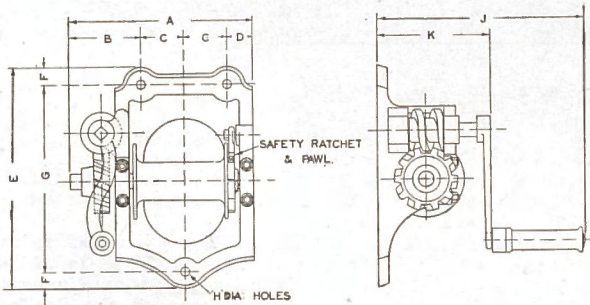
Method of Suspending Battens



A 27. Grid Pulley.

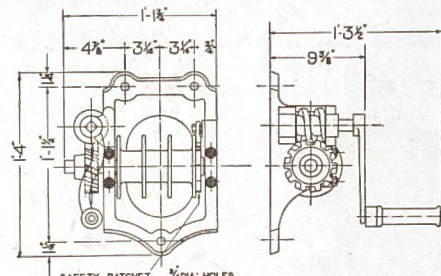


A 28. Grid Pulley.



Single Drum Winch

A 29. 5 cwt.	{ A-1' 1 1/4"	B-5 1/8"	C-3 1/8"	D-1 7/8"	E-1' 4"
	{ F-1 1/4"	G-1' 1 1/2"	H-5/8"	J-1' 2 7/8"	K-8 1/8"
A 39. 10 cwt.	{ A-1' 5"	B-6"	C-4 1/8"	D-2 1/2"	E-1' 11 3/8"
	{ F-1 3/8"	G-1' 9"	H-1"	J-1' 11 1/2"	K-1' 1"



A 30. 3-drum Winch

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# STRAND BATTEN SUSPENSION

## SUSPENSIONS FOR BATTENS UP TO 36 ft. LONG

A 25	1½" Gas Barrel (to be 2 ft. longer than batten). (Weight per foot run 3 lbs.)	1s. 6d. per ft.
A 26	Bridles (three required) ... ..	16s. 3d. each
A 27	One-way Grid Pulleys (three required) ... ..	8s. 9d. "
A 28	Three-way Grid Pulleys (one required) ... ..	15s. 6d. "
A 29	5 cwt. Single Drum Winch (one required). (Weight 56 lbs.)	£4 6s. 6d. "
Alternatively :—		
A 30	5 cwt. Three-drum Winch (one required). (Weight 65 lbs.)	£5 7s. 6d. "
A 31	½" dia. Flexible Steel Wire Line ... ..	£1 4s. 0d. per 100 ft.
A 32	⅝" dia. ditto ... ..	£1 7s. 6d. "

**NOTE.—**If three-drum winch is installed, only ½" diameter line is required. Both sizes required when single-drum winch is used.

A 33	¼" Bulldog Grips (twelve required) ... ..	8d. each
A 34	⅝" ditto (three required) ... ..	10d. "
A 35	½" Thimbles (six required) ... ..	4d. "
A 36	⅝" ditto (two required) ... ..	4d. "
A 37	Swivel Shackles (one required) ... ..	10s. 6d. "

**NOTE.—**When the three-drum winch is used only the ¼" grips are required. Nine to be used.

## SUSPENSIONS FOR BATTENS OVER 36 ft. LONG

A 25	1½" Gas Barrel (to be 2 ft. longer than batten). (Weight per foot run 3 lbs.)	1s. 6d. per ft.
A 26	Bridles (four required) ... ..	16s. 3d. each
A 27	One-way Grid Pulleys (four required) ... ..	8s. 9d. "
A 38	Four-way Grid Pulleys (one required) ... ..	£1 0s. 0d. "
A 39	10 cwt. Single-drum Winch (one required). (Weight 168 lbs.)	£7 15s. 6d. "
Alternatively :—		
A 40	10 cwt. Four-drum Winch (one required). (Weight 2 cwts.)	£9 7s. 0d. "

**NOTE.—**If four-drum winch is installed, only ½" diameter line is required. Both sizes required when single-drum winch is used.

A 33	¼" Bulldog Grips (sixteen required) ... ..	8d. each
A 34	⅝" ditto (three required) ... ..	10d. "
A 35	½" Thimbles (eight required) ... ..	4d. "
A 36	⅝" ditto (two required) ... ..	4d. "
A 37	Swivel Shackles (one required) ... ..	10s. 6d. "

**NOTE.—**When the four-drum winch is used only the ¼" grips are required. Twelve to be used.

## COUNTERWEIGHT ROD SUSPENSION (for use when batten is suspended from existing counterweight lines).

A 41	Counterweight Clips ... ..	5s. 9d. each
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## ASBESTOS SAFETY BORDER (with tapes for tying on to barrel behind spotlights). L.C.C. Regulations.

A 42	12' 0" x 2' 0" deep ... ..	£2 5s. 0d. each
A 43	6' 0" x 2' 0" deep ... ..	£1 2s. 6d. "

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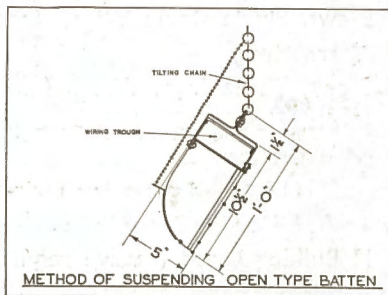
# STRAND FOOTLIGHTS and BATTENS

## STRAND OPEN TYPE FOOTLIGHTS AND BATTENS

Although these have been supplanted by the modern Magazine type, there are occasions in parish halls and little theatres where price is a prime consideration, and in this case Strand Open Type Footlights and Battens will be found to be a reliable and inexpensive expedient. The lamps can be arranged at various centres, and the colours can be obtained by lacquered 40 watt vacuum lamps, natural colour glass or colour sprayed lamps.



Open Type Footlight



Section, Open Type Batten

### FOOTLIGHT

Hooded pattern Open Type Footlight, stove-enamelled white inside, and painted service grey outside. Constructed of lead-coated steel, fitted with porcelain B.C. holders and wire guards. Wired for two or three colour circuits, and complete with end connection box.

PRICE	A 44	12" Centres	...	...	15s. 0d.	per ft.	} Net weight per ft. 3 lbs. approx.
	A 45	9" "	...	...	16s. 6d.	"	
	A 46	6" "	...	...	18s. 9d.	"	
	A 47	4" "	...	...	£1 0s. 6d.	"	

### BATTEN

Similar construction to above, complete with necessary suspension chains.

PRICE	A 48	12" Centres	...	...	18s. 9d.	per ft.	} Net weight per ft. 5 lbs. approx.
	A 49	9" "	...	...	£1 0s. 6d.	"	
	A 50	6" "	...	...	£1 1s. 6d.	"	
	A 51	4" "	...	...	£1 3s. 6d.	"	

When ordering, please state number of circuits to be wired and which end of the unit the connection box is to be fitted, i.e., Actor's Left or Actor's Right.

### BATTEN CONNECTING TAILS

Number of ways dependent on number of sub-circuits, the loading of which must comply with the Regulations of the Institution of Electrical Engineers, and other authorities.

#### SPECIFICATION

Tinned copper wires, insulated with a double jacket of vulcanized indiarubber, taped with numbered tapes, cores twisted together, taped, asbestos braided, and asbestos painted overall.

Core	Amps.	70/0076	Price per yd.	Price per 100 yds.
A 52 10	10	...	4s. 3d.	£20 0 6
A 53 15	9	...	5s. 9d.	27 9 0
A 54 19	8	...	6s. 9d.	31 14 6
A 55 25	7	...	8s. 6d.	40 10 0
110/0076				
A 56 10	15	...	5s. 3d.	£24 1 6
A 57 15	14	...	7s. 0d.	33 6 0
A 58 19	13	...	9s. 0d.	43 17 6

Subject to Market Fluctuations

*Special prices over 300 ft.*

Telephone :  
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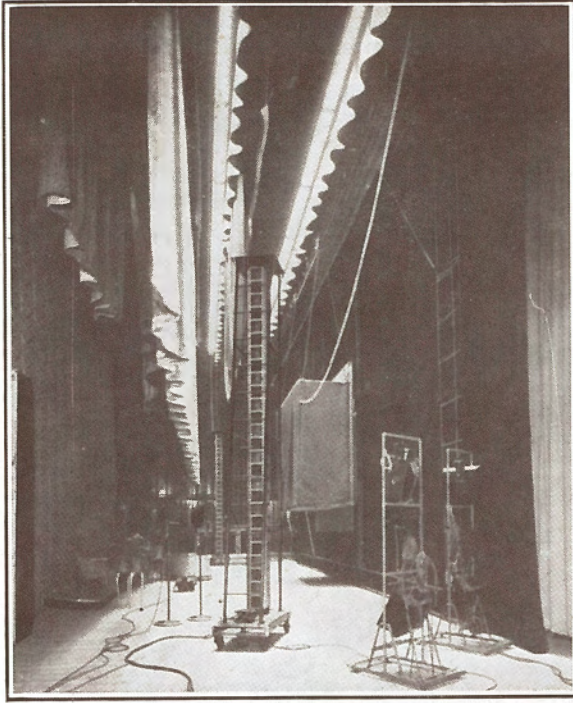
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# STRAND STAGE FLOODS



Behind the screen at the Gaumont State, Kilburn, showing wing floods and magazine wing towers

The stage flood is the most important piece of portable apparatus used in the theatre.

STRAND stage floods fall into two categories, the medium angle and the wide angle. Generally speaking, the former are more applicable to Cinema stages, where it may be necessary to throw a beam (for side lighting of curtains) across a stage 40 ft. to 60 ft. wide. In the Theatre, however, where back-cloths and backings have to be illuminated evenly from close range, the wide angle flood meets the case.

All STRAND stage floods incorporate silvered glass reflectors of various shapes, designed for the purpose in view. The patent reflectors are constructed of "SUNRAY" glass which gives maximum brilliance, absolutely free from filament striation. These are carried in special sprung fixings, and breakage under working conditions is negligible.

To ensure accurate beam control, STRAND floods are finished matt black inside, cutting down stray light to the minimum.

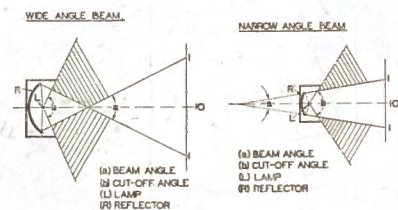
The characteristics of each flood can be found in :—

(A) The "Beam Angle." This is the angle within which the useful light is concentrated. It is defined in the case of a symmetric floodlight as the total angular width between the limits at which the illumination produced on a surface at right angles to the axis of the beam is one-tenth of the maximum.

(B) The "Cut-off Angle." This is the angle of the direct light from the lamp, and is determined by the edges of the lantern. This light is of low intensity. In some cases spill rings are fitted to the front of the lantern to mask out this stray light.

Two polar curves are given to each lantern, one plotted on polar co-ordinates, the other on rectangular co-ordinates. These show the light distribution and the relative intensity of the light given by the various reflectors.

STRAND stage floods may be used either with a telescopic stand or suspended. The forks are fitted with  $4\frac{1}{2}$  in. x  $\frac{1}{2}$  in. threaded stem and two hexagonal nuts and split pin, as standard. These should be removed if a stand is used.



Beam Angle Diagram

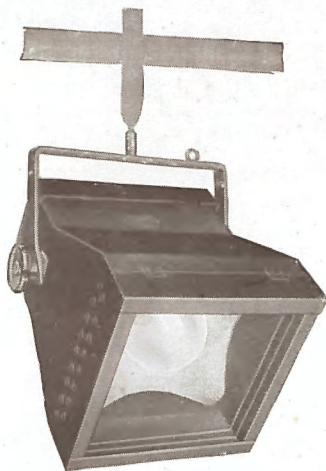
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# STRAND STAGE FLOODS



## PATTERN 30 BATTEN FLOOD 500 Watt

This lantern gives a *medium angle* beam of light, suitable for illuminating objects situated some distance from it.

### SPECIFICATION

Lantern constructed in lead-coated steel, efficiently ventilated. Fitted with runners to take two millboard colour frames, hinged flap at top. One-piece Type 30 silvered glass "SUNRAY" reflector. Tilting fork and 3 in. diameter locking wheels. 10 amp. plug with earth connection and clip. Finish, black enamel outside, matt black inside.

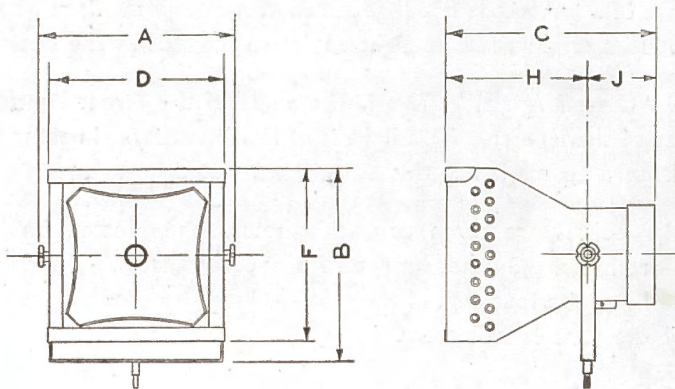
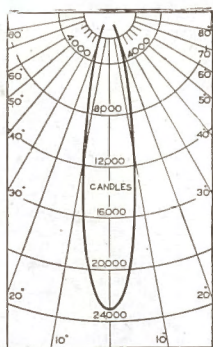
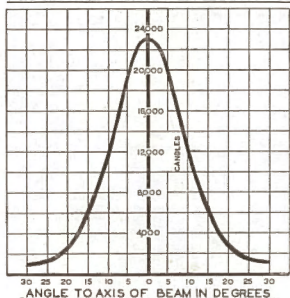
PRICE (exclusive of Lamp) ... **£3 15 0**

£ s. d.

- B 60 Light Telescopic Stand (Min. height 4 ft. 3 in. Max. 7 ft.) ... .. **1 5 0** each
- B 61 Linen-bound millboard colour frames (11 $\frac{3}{4}$  in. x 11 $\frac{3}{4}$  in.) **0 10 0** per doz.
- B 62 Ditto, with assorted gelatines ... .. **0 16 6** ..
- B 63 Ditto, with assorted "Chromoid" colours (see page 98) ... .. **1 14 0** ..
- B 64 Safety chain with snap hook (for use when lantern is suspended) ... .. **0 2 3** each
- B 65 "L" clamp for 1 $\frac{1}{2}$  in. barrel ... .. **0 2 9** ..

Lamp : 500 watt Angle Burning General Service. G.E.S. Cap (see page 105).  
Beam Angle 56°. Cut Off Angle 105°.

SUNRAY 10X10 REFLECTOR  
WITH 500W ANGLE BURNING GENERAL  
PURPOSE LAMP FOR PATT 30 FLOOD LANTERN



DIMENSIONS. PATTERN 30

	Ft.	In.		Ft.	In.
A ...	1	4	F <sub>1</sub> ...	1	0 $\frac{1}{2}$
B ...	1	1	H ...	10	$\frac{1}{2}$
C ...	1	3	J ...	4	$\frac{1}{2}$
D ...	1	0 $\frac{1}{2}$			

Nett weight of Lantern, 15 lbs.

Telephone :  
Temple Bar 7464 (6 lines).

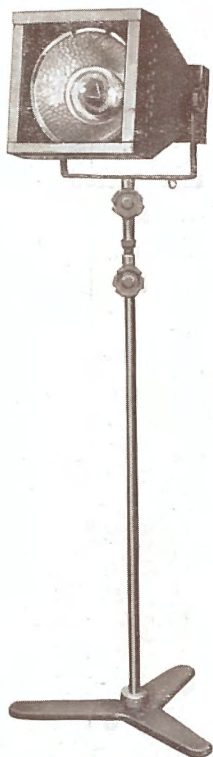
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Telegraphic Address :  
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# STRAND STAGE FLOODS

## PATTERN 60 WING FLOOD, 500 Watt



This lantern gives a *wide angle* beam of light, free from "hot spot." Suitable for illuminating backings, and small back-cloths at close range.

### SPECIFICATION

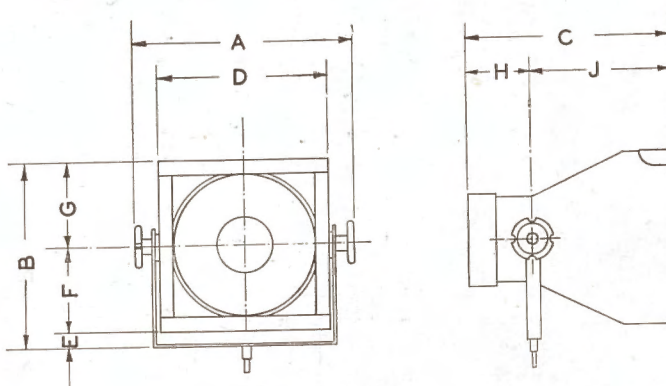
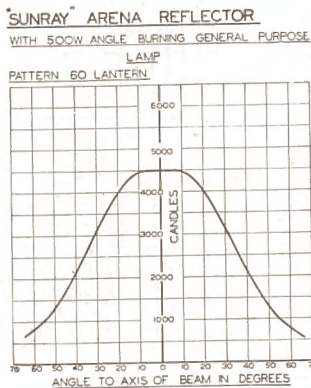
Lantern constructed in lead-coated steel, efficiently ventilated. Runners to take two millboard colour frames, hinged flap at top. One-piece Type No. 35 silvered glass "SUNRAY" reflector. Tilting fork and 3 in. diameter locking wheels. 10 amp. plug, with earth connection and clip. Finish : black enamel outside, matt black inside.

PRICE (exclusive of Lamp) ... £3 15 0

					£	s.	d.	
B 60	Light Telescopic Stand	...	...	...	1	5	0	each
	(Min. height 4 ft. 3 in. Max. 7 ft. 0 in.)							
B 61	Linen-bound millboard colour frames	(11 $\frac{3}{4}$ in. x 11 $\frac{3}{4}$ in.)	0	10	0			per doz.
B 62	Ditto, with assorted gelatines	...	0	16	6			"
B 63	Ditto, with assorted "Chromoid" colours	...	1	14	0			"
B 64	Safety chain with snap hook (for use when lantern is suspended)	...	0	2	3			each
B 65	"L" clamp for 1 $\frac{1}{2}$ in. barrel	...	0	2	9			"

Lamp : 500 watt Angle Burning General Service. G.E.S. Cap (see page 105)  
 Beam Angle 100°. Cut Off Angle 105°.

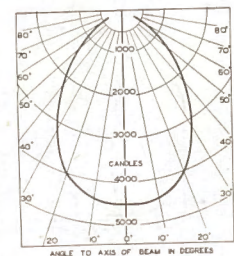
## PATTERN 32 BABY FLOOD (see page 96)



### DIMENSIONS. PATTERN 60

	Ft.	In.		Ft.	In.
A ...	1	4	F ...	6	$\frac{1}{2}$
B ...	1	1	G ...	6	$\frac{1}{2}$
C ...	1	3	H ...	10	$\frac{1}{2}$
D ...	1	0 $\frac{1}{2}$	J ...	4	$\frac{1}{2}$

Nett weight of Lantern, 15 lbs.



Telephone :  
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# STRAND STAGE FLOODS

## PATTERN 49 WING FLOOD, 1000 Watt

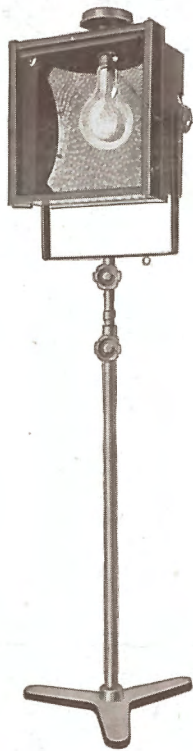
This lantern gives a *medium angle* beam of light, suitable for illuminating objects situated some distance from it.

### SPECIFICATION

Lantern constructed in lead-coated steel, efficiently ventilated. Fitted with runners to take two metal colour frames, hinged sprung flap each side. One-piece Type 49 silvered glass "SUNRAY" reflector. Tilting fork and 3 in. diameter locking wheels. 10 amp. plug with earth connection and clip. Finish: black enamel outside, matt black inside.

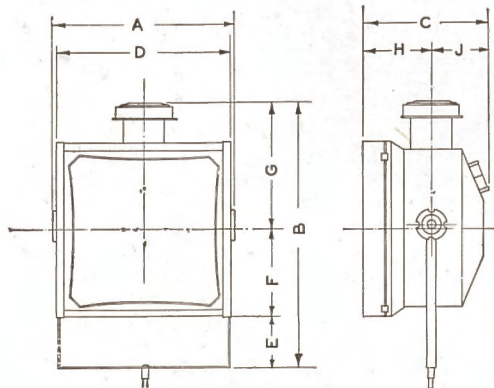
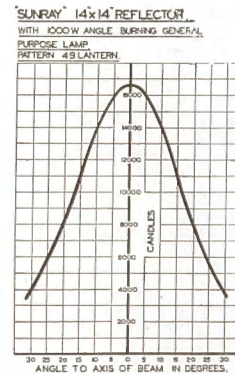
PRICE (exclusive of Lamp) ... **£5 7 6**

	£	s.	d.	
B 66 Heavy Telescopic Stand ... ..	1	10	6	each
(Min. height 4 ft. 3 in. Max. 7 ft. 0 in.)				
B 67 Metal colour frames (16 $\frac{3}{4}$ in. x 16 $\frac{3}{4}$ in.) ... ..	1	10	6	per doz.
B 68 Ditto, with assorted gelatines ... ..	2	6	6	..
B 69 Ditto, with "Chromoid" colours (see page 98) ... ..	3	3	6	..
B 64 Safety chain with snap hook (for use when lantern is suspended) ... ..	0	2	3	each
B 65 "L" clamp for 1 $\frac{1}{2}$ in. barrel ... ..	0	2	9	..



Lamp: 1000 watt Angle Burning General Service. G.E.S. Cap.

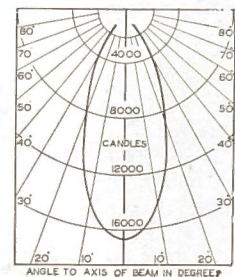
Beam Angle 64°. Cut Off Angle 105°.



### DIMENSIONS PATTERN 49

	Ft.	In.
A ...	1	6
B ...	2	2 $\frac{1}{2}$
C ...	11	$\frac{1}{2}$
D ...	1	5
E ...	5	
F ...	8	$\frac{1}{2}$
G ...	1	1
H ...	7	
J ...	4	$\frac{1}{2}$

Nett weight of Lantern,  
24 lbs.



Telephone :  
Temple Bar 7464 (6 lines).

**STRAND ELECTRIC  
AND ENGINEERING CO., LTD.**  
**FLORAL STREET, COVENT GARDEN, W.C.2**

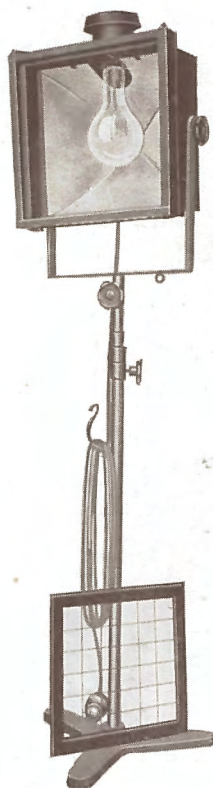
Telegraphic Address :  
Spotlite, Rand, London.



# STRAND STAGE FLOODS

## PATTERN 49 A WING FLOOD 1000 Watt

This lantern gives a *wide angle* beam of light, free from "hot spot." Suitable for illuminating back-cloths, etc., at close range.



### SPECIFICATION

Lantern constructed in lead-coated steel, efficiently ventilated. Runners to take two metal colour frames, hinged sprung flap each side. Four-piece Type 49A silvered glass "SUNRAY" reflector. Tilting fork and 3 in. diameter locking wheels. 10 amp. plug with earth connection and clip. Finish: black enamel outside, matt black inside.

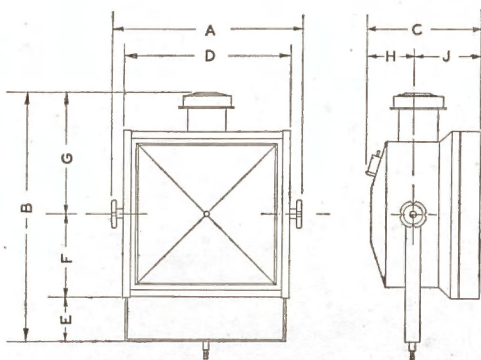
PRICE (exclusive of Lamp) ... **£5 7 6**

		£	s.	d.	
B 66	Heavy Telescopic Stand ... ..	1	10	6	each
	(Min. height 4 ft. 3 in. Max. 7 ft. 0 in.)				
B 67	Metal Colour Frames (16 $\frac{3}{4}$ in. x 16 $\frac{3}{4}$ in.)	1	10	6	per doz.
B 68	Ditto, with assorted gelatines ... ..	2	6	6	„
B 69	Ditto, with assorted "Chromoid" colours (see page 98)	3	3	6	„
B 64	Safety chain with snap hook (for use when lantern is suspended) ... ..	0	2	3	each
B 65	"L" clamp for 1 $\frac{1}{2}$ in. barrel ... ..	0	2	9	„

Lamp: 1000 watt Angle Burning General Service. G.E.S. Cap

Beam Angle 100°. Cut Off Angle 105°.

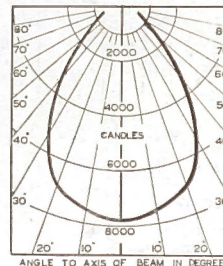
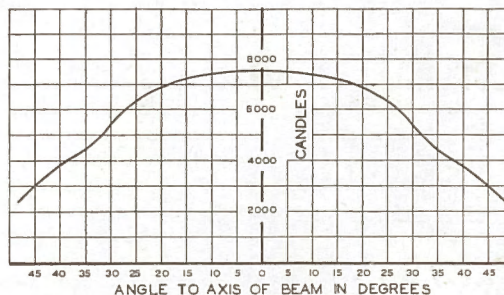
### SUNRAY PATT 49A & B FLOOD REFLECTOR WITH 1000W ANGLE BURNING GENERAL PURPOSE LAMP



DIMENSIONS. PATTERN 49A

	Ft.	In.		Ft.	In.		Ft.	In.
A ...	1	6	D ...	1	5	G ...	1	1
B ...	2	2 $\frac{1}{2}$	E ...	5		H ...	7	
C ...	11	$\frac{1}{2}$	F ...	8	$\frac{1}{2}$	J ...	4	$\frac{1}{2}$

Nett weight of Lantern, 27 lbs.



**STRAND ELECTRIC  
AND ENGINEERING CO., LTD.**

Telephone :  
Temple Bar 7464 (6 lines).

Telegraphic Address :  
Spotlite, Rand, London.

**FLORAL STREET, COVENT GARDEN, W.C.2**



# STRAND STAGE FLOODS

## PATTERN 56 ACTING AREA FLOOD, 1000 Watt



This lantern gives a *narrow angle* vertical beam, the direct rays from lamp are cut off by spill-rings, obviating any ghost. It is suitable for lighting acting areas in conjunction with a cyclorama, boxing rings, etc. Seven of these lanterns, at a height of over 70 ft., provide the illumination of the platform at the Queen's Hall, London.

### SPECIFICATION

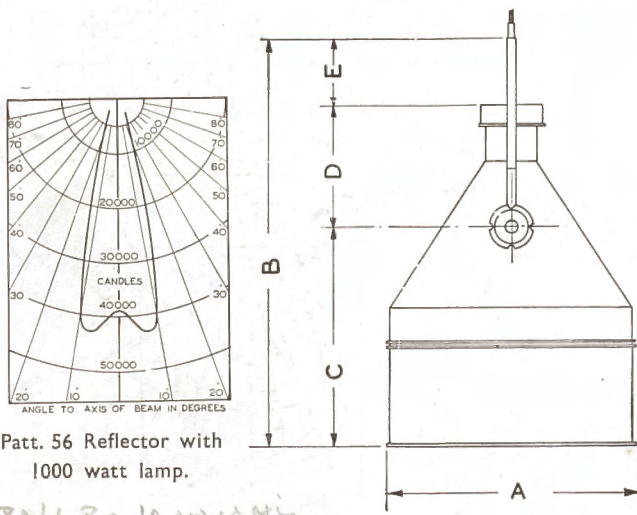
Lantern constructed in lead-coated steel, efficiently ventilated. Fitted with spill-rings, hinged to allow access to lamp. Underside of lantern equipped with removable circular metal colour frame. Three-piece Type 56 domed "SUNRAY" silvered glass reflector. Tilting fork and 3 in. diameter locking wheels. Wired with 2 ft. rockbestos tails. Finish : black enamel outside, matt black inside.

PRICE (exclusive of Lamp) ... £7 7 6

					£	s.	d.
B 70	Extra 16 in. diameter metal colour frames	...	...	...	0	4	0 each.
B 71	Gelatine colours, cut to size	...	...	...	0	12	0 per doz.
B 72	"Chromoid" colours, cut to size (see page 98)	...	...	...	1	13	0 ,,
B 64	Safety chain with snap hook	...	...	...	0	2	3 each
B 65	"L" clamp for suspension from barrel	...	...	...	0	2	9 ,,

Lamp : 1000 or 500 watt Angle Burning General Service. G.E.S. Cap.  
Beam Angle 24°. Cut Off Angle 24°.

## PATTERN 66 RING FLOOD, Exactly as 56 but Beam Angle 45°



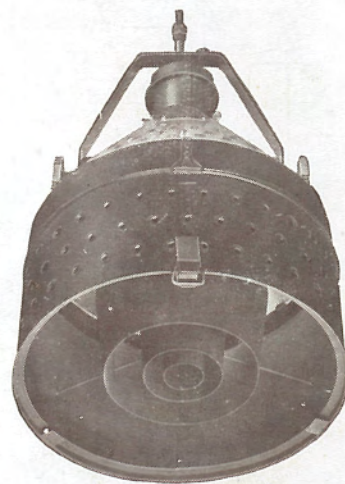
Patt. 56 Reflector with 1000 watt lamp.

*Pat 66 Pat. 10,100 at 45°*

### DIMENSIONS PATTERN 56

	Ft.	In.
A ...	1	4½
B ...	2	4
C ...	1	3¼
D ...	8	¼
E ...	4	½

Nett weight of Lantern, 26 lbs.





# STRAND STAGE FLOODS



Triple 500 Watt

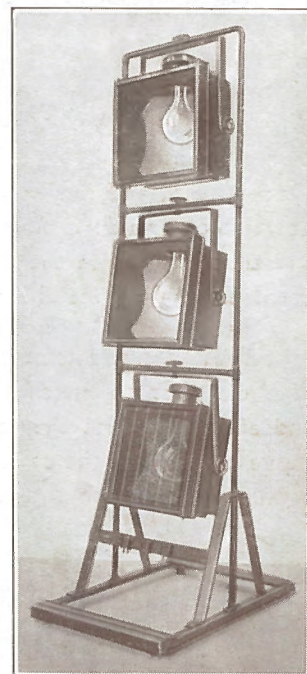
## TRIPLE 500 Watt WING FLOOD

This unit comprises three Pattern 30 Floods (see page 20), built as one lantern. It is suitable for three-colour lighting in the wings of cinema stages, etc. The lantern is provided with a tilting fork and quadrant, and is mounted on a tripod stand.

PRICE (exclusive of Lamps) ... **£12 10 0**

## TRIPLE 1000 Watt FLOOD

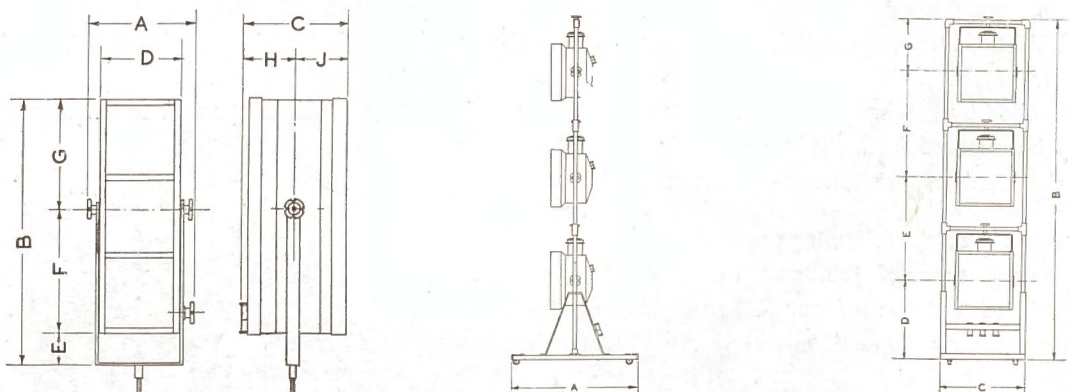
Consisting of three Pattern 49 1000 watt Floods, mounted on a light tubular steel stand, carried on heavy pattern rubber-tyred castors. Each lantern independently adjustable. Specification for lanterns is detailed on page 22. Rockbestos wiring terminating in three 10 amp. 2-pin plugs with earth connection and clip.



Triple 1000 Watt

PRICE (exclusive of Lamps) ... .. **£22 7 6**  
 As above, but for two units ... .. **£16 10 0**

### DIMENSIONS OF TRIPLE FLOODS



500 WATT TRIPLE WING FLOOD					
A	Ft.	In.	D	Ft.	In.
A	1	3	D	1	0
B	3	4	E	1	4
C	1	5	F	1	7
			G	1	4
			H	1	8
			J	1	8

Nett weight of Lantern, 52 lbs. Stand, 17 lbs.

1000 WATT TRIPLE WING FLOOD					
A	Ft.	In.	E	Ft.	In.
A	3	1 3/4	E	2	3
B	7	9 1/2	F	2	3
C	2	1 1/2	G	1	3
D	2	0 1/2			

Nett weight of Lantern and Stand, 155 lbs.

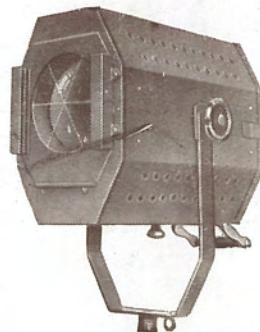


# STRAND SPOTLIGHTS

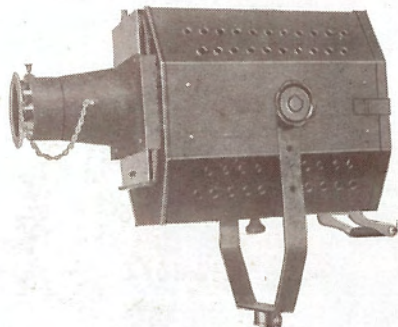
## (GAS-FILLED LAMP TYPE)

There is no type of lantern that is put to such a variety of uses as the so-called "spotlight." Although generally referred to under this name, it is more correctly described as a focus lantern. This is used on battens, circle fronts, perches, etc., and can be focussed to give a medium angle flood, or to spot down to cover a chair or table. Its prime function is to create light and shade, and therefore life in the set on the stage. A wide range of these units is listed under the general heading of FOCUS LANTERNS.

All STRAND focus lanterns are supplied with spherical chromium-plated reflectors, of a diameter to match the lens concerned. These reflectors are durable and efficient. Once they are adjusted relative to lamp filament, so that the image thrown by the reflector and the image thrown by the lamp coincide, no further attention is necessary, whether the lamp is focussed for a large or small spot.



Focus Lantern



Focus Lantern and Spotting Attachment

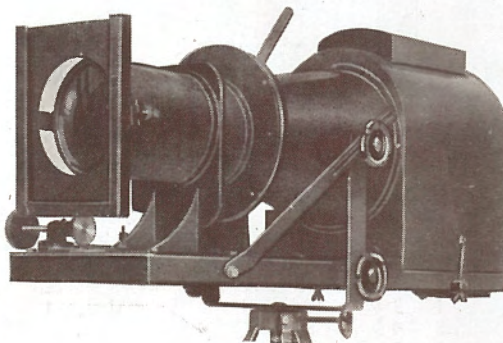
Where pin spotting is required, a supplementary lens can be fitted to the front runners, and gives a clear-cut circle of light of various diameters. The lens and the necessary diaphragms are made up in an auxiliary unit known as a SPOTTING ATTACHMENT. These are fitted with brass focussing lens tubes, safety chains, and with colour runners, to prevent deterioration of colour mediums through heat.

Strand Electric engineers, recognising that the decrease of light resulting from the use of spotting attachments left much to be desired, have designed two types of lanterns which can truly be described as perfect SPOTLIGHTS.

By means of special optical lens systems in the one case, and of reflectors in the other, the STRAND "Mirror Spotlight" and "STELMAR" have been designed to fulfil this requirement. Either of these, fitted with a 1000 watt projector lamp, gives an intense beam of light that can be controlled by diaphragms and masks to give any desired shape and size of spot. Furthermore, dimming may be effected from the stage board, in direct contrast to the cumbersome control of an arc spotlight.

To sum up, on the following pages can be found spotlights for every type of job, and in cases of doubt the considered opinion of our Research Department is at the customer's disposal.

STRAND focus lanterns and spotlights, with two exceptions, namely, Patterns 52A and 63, may be used either with a telescopic stand or suspended. The forks are fitted with  $4\frac{1}{2}$  in. x  $\frac{1}{2}$  in. threaded stem, and two hexagonal nuts and split pin.



"Stelmar" Spotlight

Telephone :  
Temple Bar 7464 (6 lines).

**STRAND ELECTRIC  
AND ENGINEERING CO., LTD.**

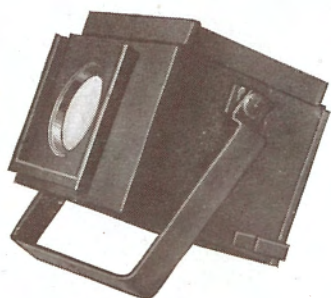
Telegraphic Address :  
Spotlite, Rand, London.

**FLORAL STREET, COVENT GARDEN, W.C.2**



# STRAND FOCUS LANTERNS

## PATTERN 27 FLOAT SPOT 100 or 250 Watt



This is a small compact spotlight which may, owing to its size, be concealed in footlights, stage furniture, prop fires, etc.

### SPECIFICATION

Lantern constructed in sheet steel, efficiently ventilated. Access to lamp by hinged door at rear. 3 in. diameter, 6 in. focus plano-convex lens. Type 27 tray, giving variation in size of spot, axial adjustment for filament. Runners to take millboard colour frame on front. Rockbestos tails. Finish: black crystalline enamel outside, matt black inside.

PRICE (exclusive of Lamp) ... £2 7 6

- C 73 Linen bound millboard colour frames (4 $\frac{3}{8}$  in. x 4 $\frac{3}{8}$  in.) ... .. 4s. 6d. per doz.
- C 74 Ditto, with assorted gelatines ... .. 6s. 9d. ,,

Lamp: 100 or 250 watt Class B.I Round Bulb Projector. E.S. Cap. (see page 103).  
 Beam Angle: Maximum 49°. Minimum 22°.  
 Effective throw, 15 ft.

## PATTERN 45 MINIATURE SPOT 250 Watt

This is a small spotlight which, owing to an increase in size compared to the Pattern 27, gives a more efficient light, and greater range of focussing. Suitable for small stages, exhibition displays, and stands.

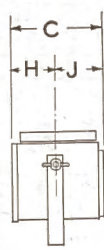
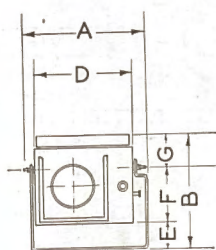
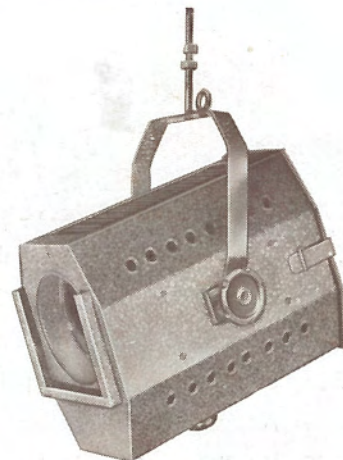
### SPECIFICATION

Lantern constructed in sheet steel, efficiently ventilated. Access to lamp by hinged door at rear. 4 $\frac{1}{2}$  in. diameter, 6 $\frac{1}{2}$  in. focus plano-convex lens. Type 45 tray, giving axial adjustment for filament, complete with spherical chromium-plated reflector. Focussing by knob under lantern. Runner to take millboard colour frame on front. Rockbestos tails. Finish: black crystalline enamel outside, matt black inside.

PRICE (exclusive of Lamp) ... £3 10 0

- C 76 Linen bound millboard colour frames (5 $\frac{5}{8}$  in. x 5 $\frac{1}{4}$  in.) ... .. 5s. 6d. per doz.
- C 77 Ditto, complete with assorted gelatines ... .. 7s. 9d. ,,
- C 78 Ditto, complete with assorted "Chromoid" colours ... .. 9s. 9d. ,,
- C 64 Safety chain with snap hook ... .. 2s. 3d. each
- C 79 Swivel arm bracket ... .. 12s. 6d. ,,

Lamp: 250 watt Class B.I Round Bulb Projector. E.S. Cap. (see page 103).  
 Beam Angle: Maximum 39°. Minimum 11°. Effective throw, 15 ft.

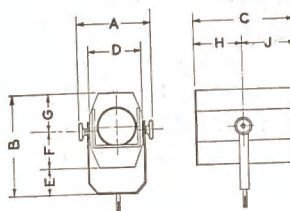


PATTERN 27	
	Ft. In.
A ...	9 $\frac{1}{4}$
B ...	8 $\frac{1}{2}$
C ...	6 $\frac{1}{2}$
D ...	7
E ...	2 $\frac{1}{2}$
F ...	4
G ...	2
H ...	3
J ...	3 $\frac{1}{2}$

Nett weight of Lantern, 5 lbs.

PATTERN 45	
	Ft. In.
A ...	8 $\frac{1}{2}$
B ...	10
C ...	11 $\frac{1}{2}$
D ...	6
E ...	3 $\frac{1}{2}$
F ...	4 $\frac{1}{2}$
G ...	4 $\frac{1}{4}$
H ...	5 $\frac{3}{4}$
J ...	6 $\frac{1}{4}$

Nett weight of Lantern, 9 $\frac{1}{2}$  lbs.



Telephone: Temple Bar 7464 (6 lines).

**STRAND ELECTRIC AND ENGINEERING CO., LTD.**  
**FLORAL STREET, COVENT GARDEN, W.C.2**

Telegraphic Address: Spotlite, Rand, London.



# STRAND FOCUS LANTERNS

## PATTERN 44 BABY SPOT, 500 Watt

This spotlight is suitable for a multitude of situations on the stage proper, while for small amateur stages they may be used as F.O.H. focus lamps.



### SPECIFICATION

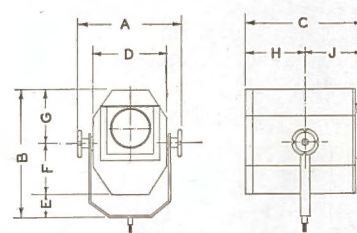
Lantern constructed in sheet steel, efficiently ventilated. Access to lamp by hinged door at rear. 4½ in. diameter, 6½ in. focus plano-convex lens. Type 43 tray, giving vertical and axial adjustment for lamp filament, complete with spherical chromium-plated reflector. Focusing by knob under lantern. Runner to take millboard colour frame on front, hinged flap and clip on top. Rockbestos tails, tilting fork and 3 in. diameter locking wheels. Finish: black crystalline enamel outside, matt black inside.

PRICE (exclusive of Lamp) ... £4 15 0

						£	s.	d.
C 80	Linen bound millboard colour frames (6 in. x 6 in.)	...	...	...	...	6	9	per doz.
C 81	Ditto, with assorted gelatines	...	...	...	...	9	0	„
C 82	Ditto, with assorted "Chromoid" colours (see page 98)	...	...	...	...	11	0	„
C 83	Spotting attachment with four masks (3½ lbs.)	...	...	...	...	2	7	6 each
C 64	Safety chain with snap hook	...	...	...	...	2	3	„
C 84	Adjustable barrel clamp (as illustrated)	...	...	...	...	7	6	„
C 65	"L" clamp for 1½ in. barrel...	...	...	...	...	2	9	„
C 79	Swivel arm bracket	...	...	...	...	12	6	„

Lamp: 500 watt Class A I Tubular or Class B I Round Bulb Projector. G.E.S. Cap (see page 103).

Beam Angle: Maximum 39°, Minimum 11½°.  
Effective throw 25 ft.



DIMENSIONS.		PATTERN 44	
A	...	Ft.	In.
B	...	1	11½
C	...	1	2½
D	...	8	1
E	...	2½	6½
F	...	5½	6½
G	...	6½	6½
H	...	6½	6½
J	...	6½	6½

Nett weight of Lantern, 18 lbs.

Telephone: Temple Bar 7464 (6 lines).

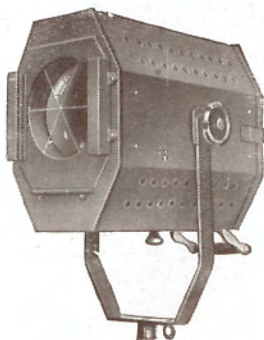
**STRAND ELECTRIC AND ENGINEERING CO., LTD.**  
**FLORAL STREET, COVENT GARDEN, W.C.2**

Telegraphic Address: Spoclite, Rand, London.



# STRAND FOCUS LANTERNS

## PATTERN 43 B STAGE SPOT, 1000 Watt



This Spotlight is suitable for all general stage purposes, and may be used as a F.O.H. focus lamp. Also suitable for CABARET work, etc.

### SPECIFICATION

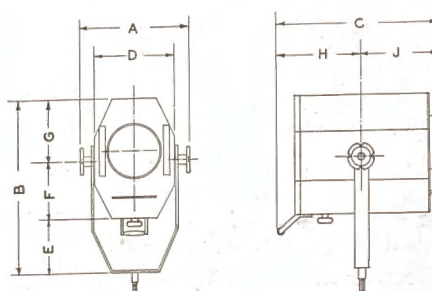
Lantern constructed in sheet steel, efficiently ventilated. Access to lamp by hinged door at rear. 6 in. diameter, 10 in. focus plano-convex lens. Type 43 tray, giving vertical and axial adjustment for lamp filament, complete with spherical chromium-plated reflector. Focusing by knob under lantern. Runners to take millboard colour frames on front. Tilting fork and 3 in. diameter locking wheels. Removable handle at rear. Finish, black crystalline enamel outside, matt black inside.

PRICE (exclusive of Lamp) ... £6 0 0

	£	s.	d.
C 60 Light Pattern Telescopic Stand (Min. height 4 ft. 3 in., Max. 7 ft. 0 in.) ...	1	5	0 each
C 225 Linen bound millboard colour frames (8 $\frac{3}{4}$ in. x 7 $\frac{1}{2}$ in.) ...		8	3 per doz.
C 226 Ditto, with assorted gelatines ...		11	0 ,,
C 227 Ditto, with assorted "Chromoid" colours (see page 98) ...		16	6 ,,
C 88 Spotting attachment with four masks, giving four sizes of spots (weight 5 $\frac{1}{2}$ lbs.)	3	0	0 each
C 64 Safety chain with snap hook ...		2	3 ,,
C 84 Adjustable barrel clamp ...		7	6 ,,
C 65 "L" clamp for 1 $\frac{1}{2}$ in. barrel ...		2	9 ,,
Extra Price for fitting switch to Lantern for cabaret work ...		10	0 Nett

Lamp : 1000 watt Class A I Tubular or Class B I Round Bulb Projector. G.E.S. Cap (see page 103).

Beam Angle : Maximum 42°, Minimum 13°.  
Effective throw 60 ft.



DIMENSIONS. PATTERN 43B

	Ft.	In.		Ft.	In.
A ...	1	0 $\frac{1}{2}$	F ...	6	$\frac{3}{4}$
B ...	1	8	G ...	6	$\frac{3}{4}$
C ...	1	5 $\frac{1}{2}$	H ...	8	$\frac{3}{4}$
D ...		9	J ...	8	$\frac{3}{4}$
E ...		6 $\frac{1}{2}$			

Nett weight of Lantern, 25 lbs.

Telephone :  
Temple Bar 7464 (6 lines).

**STRAND ELECTRIC  
AND ENGINEERING CO., LTD.**

Telegraphic Address :  
Spotlite, Rand, London.

**FLORAL STREET, COVENT GARDEN, W.C.2**



# STRAND FOCUS LANTERNS

## PATTERN 43A BATTEN SPOT 1000 Watt



This compact lantern is primarily designed for use on a spot batten. Strength of construction, access to lamp, and special focussing have been arranged to this end. It may be used as a front of circle focus lantern if desired.

### SPECIFICATION

Lantern constructed with aluminium front, back and sides. Sheet steel top and bottom. Access to lamp by hinged door at top. 6 in. diameter, 10 in. focus plano-convex lens. Type 43A tray, giving vertical and axial adjustment for lamp filament. Complete with spherical chromium-plated reflector. Worm drive focussing front and rear. Cast runners fitted with retaining springs to take two millboard colour frames. Rockbestos tails, tilting fork with 3 in. diameter locking wheels. Finish : black crystalline enamel outside, matt black inside.

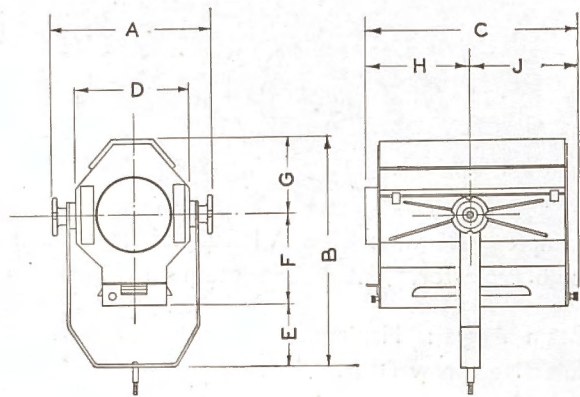
PRICE (exclusive of Lamp) ... **£10 10 0**

		£ s. d.
C 225	Linen-bound millboard colour frames (8 $\frac{3}{4}$ in. x 7 $\frac{1}{2}$ in.) ... ..	0 8 3 per doz.
C 226	Ditto, with assorted gelatines ... ..	0 11 0 ,,
C 227	Ditto, with assorted "Chromoid" colours (see page 98) ... ..	0 16 6 ,,
C 88	Spotting attachment with assorted masks, giving four sizes of spots (weight 5 $\frac{1}{2}$ lbs.) ... ..	3 0 0 each
C 64	Safety chain with snap hook ... ..	0 2 3 ,,
C 84	Adjustable barrel clamp ... ..	0 7 6 ,,
C 65	"L" clamp (as illustrated) ... ..	0 2 9 ,,

Lamp : 1000 watt Class A.I Tubular or Class B.I round bulb projector. G.E.S. Cap.

Beam Angle : Maximum 54°. Minimum 18°.  
Effective throw, 60 ft.

Prices of complete Spot Battens to customer's specification on application.



DIMENSIONS. PATTERN 43A

	Ft.	In.		Ft.	In.		Ft.	In.	
A	...	1	0 $\frac{1}{2}$	D	...	9	G	...	6 $\frac{1}{2}$
B	...	1	5 $\frac{1}{2}$	E	...	4 $\frac{1}{2}$	H	...	8 $\frac{1}{2}$
C	...	1	4 $\frac{1}{2}$	F	...	6 $\frac{1}{2}$	J	...	8 $\frac{1}{4}$

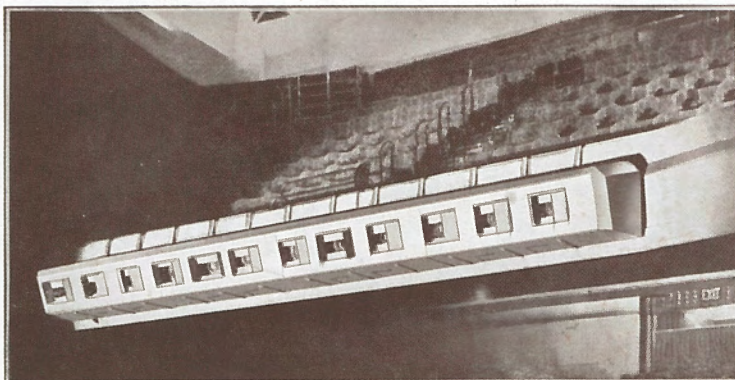
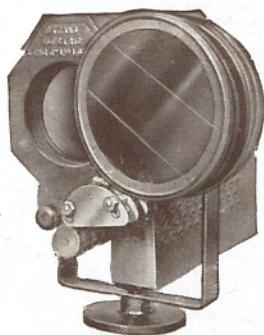
Nett weight of Lantern, 30 lbs.



*The paper obsolete.*  
*exp. \**

# STRAND FOCUS LANTERNS

## REMOTE COLOUR-CHANGE SPOT



Circle Front Colour-change Spots at Adelphi Theatre, London

The increase in F.O.H. stage lighting from circle fronts, either as a substitute for or in addition to footlights, has rendered it desirable to have some means of changing the colours of the individual lanterns by remote control. For this purpose, the electric solenoid action here illustrated will be found silent, trouble-free, and easy to install.

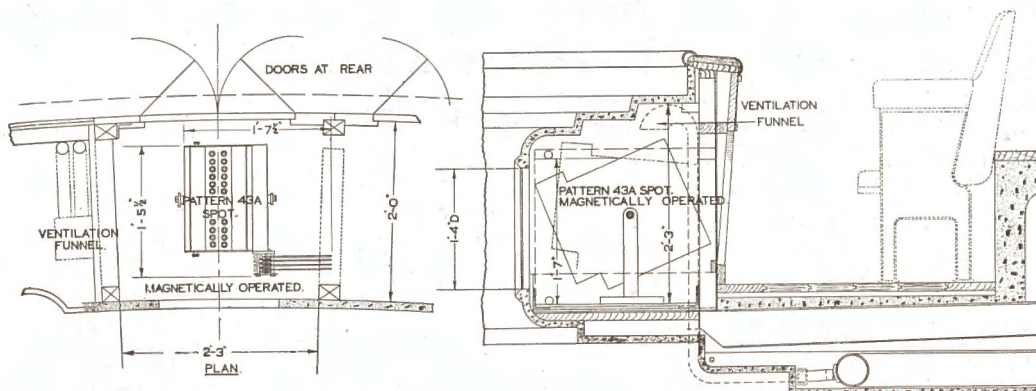
The system gives four colours and white; the action employs direct current solenoids to ensure silence. The coils can be wound to any voltage to suit whatever D.C. supply is available.

In practice, it is most convenient to feed the coils off the stage or projection room arc generator. However, a separate small rectifier can be supplied if preferred.

Control is by means of miniature switches mounted in colour rows with colour master switches. The mechanism can be fitted to Patterns 43A, 52A, 52B, 63 or 73. Their reliability and utility is proved by the fact that this remote colour control is fitted to banks of F.O.H. lanterns, situated in theatres whose names are household words throughout the English-speaking world:—

- |                        |                           |                         |
|------------------------|---------------------------|-------------------------|
| Drury Lane Theatre     | Covent Garden Opera House | Adelphi Theatre, London |
| Palace Theatre, London | London Palladium          | London Casino           |
| His Majesty's, London  | Gaiety, London            | Prince of Wales, London |
|                        |                           | Odeon Alhambra, London  |

And numerous theatres and cinemas in London and the provinces.



PRICE ... Pattern 43A Lantern, described on page 32, complete with remote colour change mechanism, colour frames and gelines, but excluding lamp—

- |                              |          |
|------------------------------|----------|
| (4 colours and white) ... .. | £31 10 0 |
| (3 colours and white) ... .. | £27 10 0 |

- |                                                                  |       |              |
|------------------------------------------------------------------|-------|--------------|
| C 89 Gelatine colours, cut to size (exclusive of frame) ... ..   | s. d. | 6 0 per doz. |
| C 90 "Chromoid" colours, cut to size (exclusive of frame) ... .. | 10 0  | "            |

**STRAND ELECTRIC AND ENGINEERING CO., LTD.**

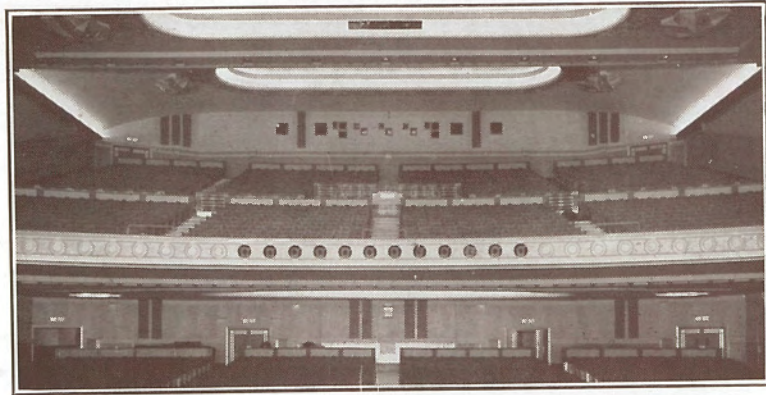
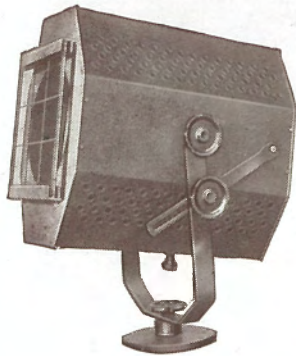
Telephone: Temple Bar 7464 (6 lines). Telegraphic Address: Spotlite, Rand, London.

**FLORAL STREET, COVENT GARDEN, W.C.2**



# STRAND FOCUS LANTERNS

PATTERN 52 A & B FOCUS FLOOD 2000 Watt



Regal Cinema, Edmonton

The Pattern 52A is suitable for use in housings on the balcony fronts for general illumination of the fore-stage or tabs. The use of an 8 in. diameter lens gives maximum efficiency, while the dimensions are kept down to a minimum to render concealment as easy as possible. The Pattern 52B is 4" longer enabling a smaller minimum beam angle to be obtained.

### SPECIFICATION

Lantern constructed with cast aluminium front and back, sheet steel sides. Efficient ventilation. Access to lamp by hinged door at rear. 8 in. diameter, 13 in. focus plano-convex lens. Type 52 tray giving vertical and axial adjustment for lamp filament, complete with 6 in. diameter spherical chromium-plated reflector. Focussing by knob under lantern. Cast runners fitted with retaining springs to take two metal colour frames. Rockbestos tails. Tilting fork and quadrant with 3 in. diameter locking wheels. Heavy cast base mounting. Finish: black crystalline enamel outside, matt black inside. PRICE (exclusive of Lamp) ... **£12 15 0**

							£	s.	d.	
C 91	Metal colour frames, 10 in. x 10 in.	...	...	...	...	...	0	10	0	per doz.
C 92	Ditto, with assorted gelatine colours	...	...	...	...	...	0	16	6	"
C 93	Ditto, with assorted "Chromoid" colours	...	...	...	...	...	1	9	6	"

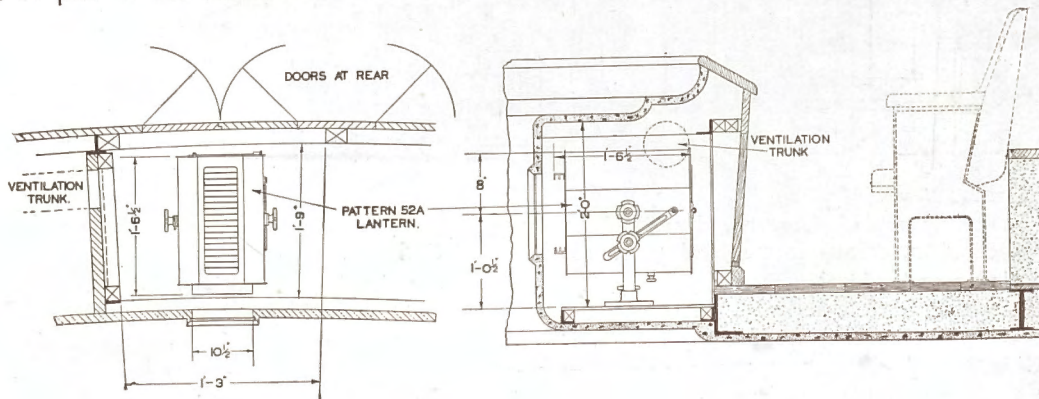
Nett weight, 42 lbs.

Lamp: 2000 watt Cinema Studio or 1500 watt Class A.1 Tubular Projector. G.E.S. Cap.

Beam Angles: Pattern 52A. Maximum 54°. Minimum 25°.

" " Pattern 52B. Maximum 54°. Minimum 14°. Effective throw, 70 ft.

**IMPORTANT NOTE.**—When a number of these lanterns are used in a housing, particular attention should be paid to the ventilation.



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AND ENGINEERING CO., LTD.**

Telephone :  
Temple Bar 7464 (6 lines).

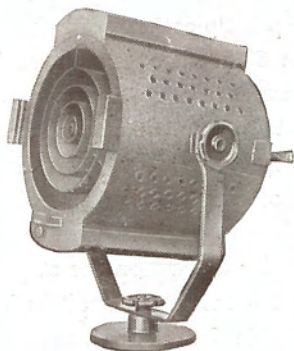
**FLORAL STREET, COVENT GARDEN, W.C.2**

Telegraphic Address :  
Spotlite, Rand, London.



# STRAND FOCUS LANTERNS

## PATTERN 50 A PAGEANT LANTERN, 1000 Watt



This lantern provides a very intense soft edge beam of light, the size of which can be varied slightly. Suitable for stage sunlight, photography, and other instances where a very intense beam is required.

### SPECIFICATION

Sheet metal housing, efficiently ventilated. Door at rear carrying 10 in. diameter silvered glass parabolic reflector. Type 50 tray, giving axial and vertical adjustment for lamp filament. Worm drive focussing. Front of lantern fitted with spill rings to cut off direct rays of light. Colour runners and glass diffusing screen. Rockbestos tails. Tilting fork with 3 in. diameter locking wheels, mounted on heavy cast base. Removable handle at rear. Finish: black inside, black crystalline enamel outside.

PRICE (exclusive of Lamp) ... £8 2 6

					£	s.	d.
C 61	Linen-bound millboard colour frames (11 $\frac{3}{4}$ in. x 11 $\frac{3}{4}$ in.)	...	...	...	0	10	0 per doz.
C 62	Ditto, with assorted gelatines	...	...	...	0	16	6 "
C 63	Ditto, with assorted "Chromoid" colours	...	...	...	1	14	0 "
C 94	Coloured glass screens (Pink, Blue or Amber)	...	...	...	0	2	9 each

Lamp: 1000 watt Class A.I Tubular or Class B.I Projector.

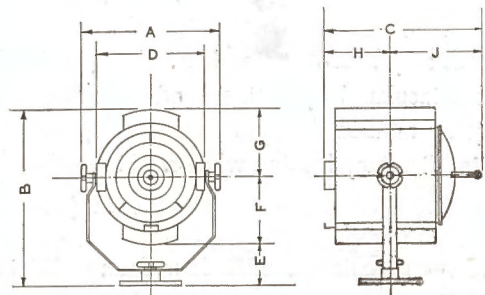
G.E.S. Cap.

Beam Angle: Maximum 17°. Minimum 11°.

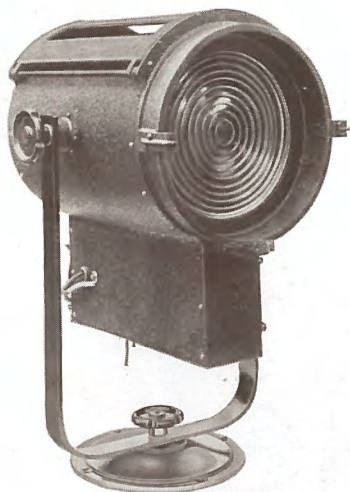
### DIMENSIONS. PATTERN 50A

	Ft.	In.		Ft.	In.		Ft.	In.
A ...	1	3 $\frac{1}{2}$	D ...	1	0	G ...	7	$\frac{1}{2}$
B ...	1	8	E ...	5		H ...	7	
C ...	1	6	F ...	7	$\frac{1}{2}$	J ...	11	

Nett weight of Lantern, 26 lbs.



## PATTERN 100, 1000-2000 Watt SOFT EDGE SPOT



This lantern provides a very intense soft edge beam of light, similar to Pattern 50A above. In addition, by turning a single knob this beam can be focussed to give a wide range of spot sizes.

### SPECIFICATION

Housing constructed principally of aluminium castings with sheet steel baffles. Type 100 tray giving axial and vertical adjustment for lamp filament. Worm drive focussing 9 in. diameter flat step lens, 8 $\frac{1}{2}$  in. diameter spherical silvered glass mirror. Tilting fork with locking wheels and cast baseplate. Following handle at rear. Finish: black inside, black crystalline enamel outside.

PRICE ON APPLICATION

	£	s.	d.
10 $\frac{3}{4}$ in. diameter Metal Colour Frames	...	...	0 3 9 each
Ditto, with assorted "Chromoid" Colours	...	...	0 5 9 "

Lamp: 2000 watt Cinema Studio G.E.S. Cap.

Beam Angle: Maximum 45°. Minimum 10°.

Overall Width: 2 ft. Height: 1 ft. 7 ins. Length: 1 ft. 4 ins. Nett weight 37 lbs.

Note.—This lantern can be arranged to take Prefocus Bipost lamps at a slight extra charge.

Telephone:  
Temple Bar 7464 (6 lines).

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Telegraphic Address:  
Spoolite, Rand, London.



# STRAND SPOTLIGHTS

## PATTERN 73 MIRROR SPOTLIGHT, 1000 Watt



This lantern employs optical principles never before applied to stage spotlights. An 8 in. diameter silvered glass mirror projects an intense beam of light on a variable gate. This is focussed by a 6 in. diameter step lens. By this means rectangular spots of various sizes can be projected with an intensity of over double that obtained from a standard spotlight of the same size and wattage. Masking, to spot irregular objects on the stage hitherto impossible, can now be easily accomplished. This lantern is particularly suitable for circle front or batten spotting in the legitimate theatre.

### SPECIFICATION

Lantern constructed in sheet steel, efficiently ventilated, cast aluminium front and back. Type 43 tray, 8 in. diameter silvered glass reflector, 6 in. diameter, 9 in.

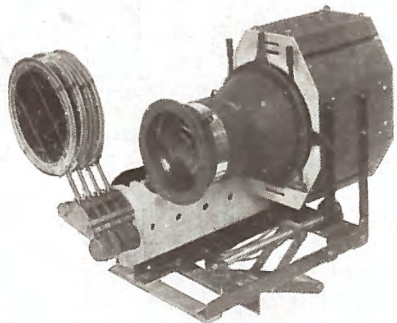
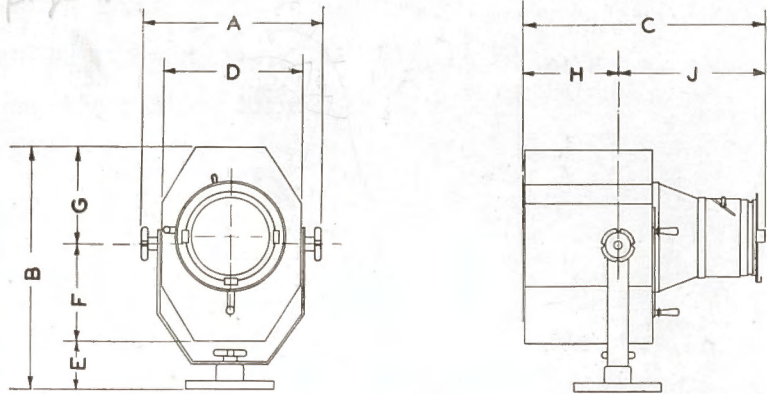
focus step heat-resisting lens. Independently operated horizontal and vertical barn door shutters with heat insulated operating handles, runner for additional internal mask if required. Front runner to take square millboard colour frame or circular metal frame. Rockbestos tails, tilting fork and quadrant with 3 in. diameter locking wheels. Finish, black crystalline enamel outside, matt black inside.

PRICE (exclusive of Lamp) ... **£16 5 0**

<i>C 85</i>	<del>C 240</del>	Circular metal colour frames (6 3/4 in. diameter) ... ..	£	s.	d.	per doz.
<i>C 86</i>	C 241	Ditto, with assorted gelatines ... ..	1	3	0	"
<i>C 87</i>	C 242	Ditto, with assorted "Chromoid" colours ... ..	1	7	0	"

*Prices & details on file D85, 86, 87 page 40*

Beam Angles :  
Maximum 19° Minimum 3°  
Lamp : 1000 watt Class A1 Tubular  
or Class B1 Round Bulb Projector.



Patt. 73 with magnetic colour change as fitted in circle front at Odeon Alhambra, London, etc.

### DIMENSIONS PATTERN 73

A	...	...	1	1 1/2			
B	...	...	1	6			
C	...	...	1	7			
D	...	...	...	10			
J	...	...	1	0 3/4			
E	...	...	...	5			
F	...	...	...	6			
G	...	...	...	6			
H	...	...	...	6			

Nett weight 30 lbs.

## STRAND ELECTRIC AND ENGINEERING CO., LTD.

Telephone :  
Temple Bar 7464 (6 lines).

Telegraphic Address :  
Spotlite, Rand, London.

FLORAL STREET, COVENT GARDEN, W.C.2

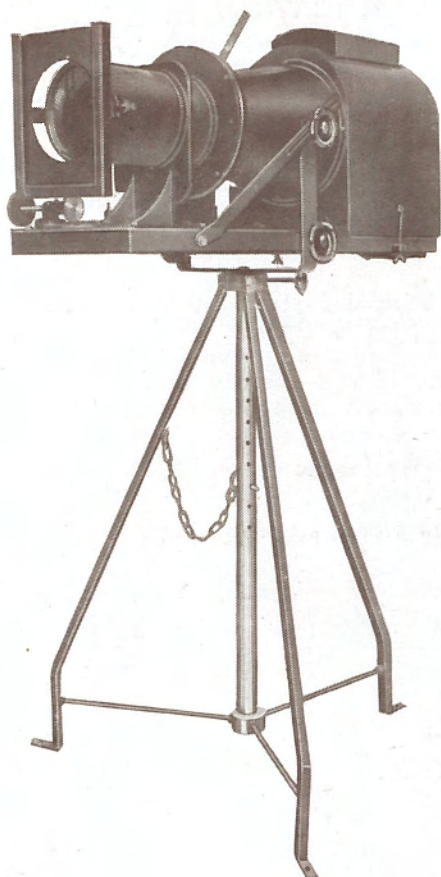
*Colour media as on page 33 - C89 & C90 to fit Pats. 73 & 83*



# STRAND SPOTLIGHTS

## PATTERN 63 STELMAR SPOTLIGHT 1000 Watt

This lantern gives a powerful beam of light of variable size. Suitable for spotting or following artists from the front of the house. Three of these lanterns, fitted with 30 volt 30 amp. lamps, are used for front of house spotting in place of arcs at the Royal Opera House, Covent Garden.



### SPECIFICATION

Lantern constructed in sheet steel with cast base and supporting castings giving rigidity. Removable lamp-house gives access to lamp and Stelmar unit. Lamp holder provided with special arrangements to ensure accurate centering of filament in optical system. Efficient ventilation. Iris diaphragm. Horizontal and vertical barndoor shutters giving various shaped beams of light. Rack and pinion focussing, 6 in. diameter, 12 in. focus plano-convex lens. A colour runner to take millboard colour frames on front. Tilting fork and quadrant with 3 in. diameter locking wheels. Finish: crystalline enamel, nickel-plated accessories.

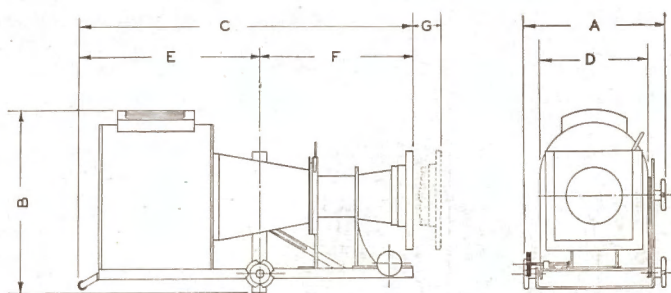
PRICE (exclusive of Lamp) ... **£50 0 0**

C 99	Heavy tripod stand (maximum height, 3 ft. 6 in. ; minimum, 3 ft.)	£ s. d.	
		<b>3 0 0</b>	each
C 119	Linen-bound millboard colour frames (8 $\frac{3}{4}$ in. x 7 in.)	...	<b>0 8 3</b> per doz.
C 120	Ditto, with assorted colours	...	<b>0 11 0</b> ..
C 121	Ditto, with assorted "Chromoid" colours	...	<b>0 16 6</b> ..

Lamp : 1000 watt Class A.1 Tubular or 30 volt 30 amp. Projector. G.E.S. Cap.  
Beam Angle: Maximum 16 $\frac{1}{2}$ °. Minimum 3°.  
Effective throw 150 ft.

C 100 Double-wound enclosed air-cooled transformer. Input 230 volts, 50 cycles. Output 30 volts, 30 amps.

PRICE ... **£6 0 0**



### DIMENSIONS. PATTERN 63

	Ft.	In.		Ft.	In.
A...	1	2 $\frac{1}{2}$	E...	1	7
B...	1	6	F...	1	4 $\frac{1}{2}$
C...	2	11 $\frac{1}{2}$	G...		3
D...		11			

Nett weight of Lantern, 85 lbs. Stand, 15 lbs.

Telephone :  
Temple Bar 7464 (6 lines).

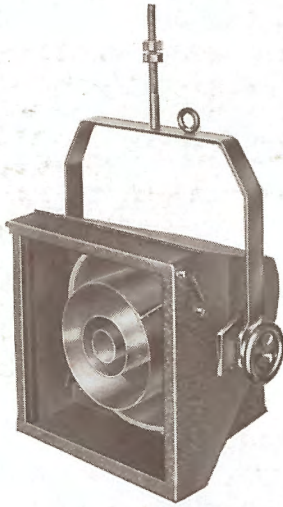
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**AND ENGINEERING CO., LTD.**  
**FLORAL STREET, COVENT GARDEN, W.C.2**

Telegraphic Address :  
Spotlite, Rand, London.



# STRAND SPOTLIGHTS

## PATTERN 81 LOW VOLTAGE SPOT (36 WATT)



This Lantern gives a soft edge spot of high intensity. The lamp is of the 12 volt Car type, but the built in transformer allows the lantern to be connected to the usual AC mains.

### SPECIFICATION

Sheet Metal Lantern, the dimensions of which are as small as possible, consistent with efficiency. Easily removable spill rings giving access to lamp.

Runners to carry colour mediums and removable diffusing glass (supplied with lantern).

Compact built in transformer, giving a voltage range of 200-250.

Tilting fork with threaded stem and lock nuts, or heavy cast base supplied if required.

**Lamp :** Owing to the efficient design of this Lantern, the 12 volt—36 watt Headlight Lamp gives a brighter light than a 60 watt lamp of the same voltage with the usual optical system.

**Reflector :** This is a silver plated copper spinning of a deep parabolic curve, giving maximum reflection and life.

**Focussing :** The Lantern is fitted with a knob at rear, with worm action, giving positive and easy variation of focus.

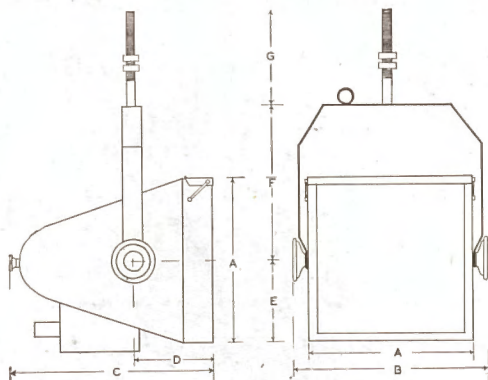
PRICE (including lamp and built in transformer) : A. Indoor Type ... .. **£5 1 9**  
 B. Weatherproof Type... .. **£5 15 6**  
 Assorted Gelatine Colours cut to size ... .. **3/3 per doz.**  
 Assorted "Chromoid" Colours cut to size ... .. **8/3 " "**

**Beam Angle :** Maximum 10 deg. Minimum 2 deg.

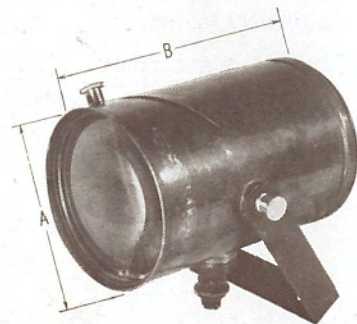
## PATTERN 87 LOW VOLTAGE LENS SPOT (36 WATT)

This Lantern, which is extremely small, was designed for concealment in the ceiling of the British Pavilion at Paris. It has been modified to take the same lamp as the Pattern 81 above, and thereby made even smaller. The transformer is supplied as a separate unit, as this has been found more convenient in this instance.

PRICE (including lamp and separate transformer) ... .. **£3 10 0**



	Pattern 81	Pattern 87
A	... 8 $\frac{1}{4}$ in.	A ... 3 in.
B	... 9 $\frac{3}{4}$ "	B ... 5 "
C	... 10 $\frac{1}{4}$ "	
D	... 4 "	TRANSFORMER
E	... 4 $\frac{1}{2}$ "	4 $\frac{1}{2}$ in. high
F	... 7 $\frac{3}{4}$ "	2 $\frac{3}{4}$ in. wide
G	... 4 $\frac{3}{4}$ "	3 $\frac{3}{4}$ in. long

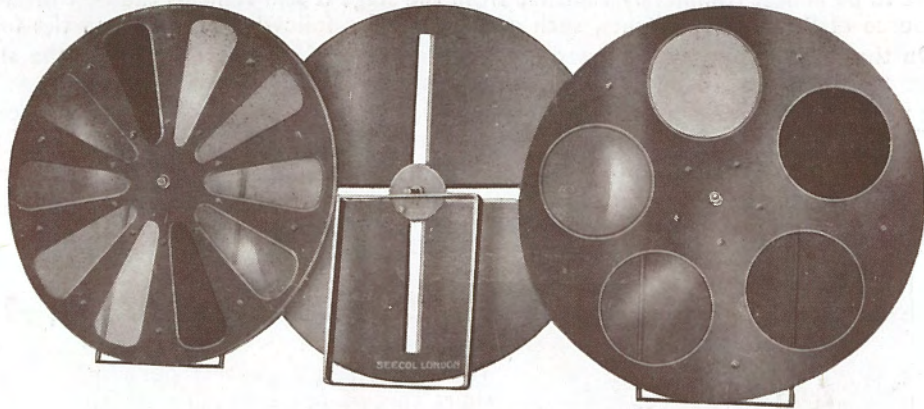




# STRAND SPOTLIGHT ACCESSORIES

## RAINBOW, FLICKER AND COLOUR WHEELS

Constructed of sheet aluminium with wired rims, pivoted on cast aluminium plate to fit front runners of Patterns 43B, 63, 23A, 22 and 42. Gelatine colours replaceable by removing one screw to each colour only. Diameter, 20in. Weight 3 lbs.



Rainbow Colour and Flicker Wheels

										£	s.	d.	
C 101	No. 1—Rainbow	...	...	...	...	...	...	...	...	1	13	0	each
C 102	No. 2—Flicker	...	...	...	...	...	...	...	...	1	4	0	„
C 103	No. 3—Colour	...	...	...	...	...	...	...	...	1	12	6	„

Smaller colour wheels to fit Pattern 44, price as above

## AUTOMATIC COLOUR WHEEL

Five colours on sectional mica disc, in aluminium case 18½ in. diameter. Clock drive, with electric battery start and stop. To fit same lanterns as standard colour wheels. Weight 8 lbs.

C 105 PRICE (exclusive of Batteries) £6 16 6 each Nett

As above, but with universal electric motor drive (giving one rev. in three minutes).

C 106 PRICE ... £10 15 0 each Nett



Iris Diaphragm

## IRIS DIAPHRAGM

Aluminium casting with brass leaves. Lever movement, 5 in. aperture to black out. To fit Patterns 43B, 63, 23A and 22. Special sizes made to order. Weight 3 lbs.

C 104 PRICE ... £3 2 6 each

## MIRROR BALL

Complete ball with blue and white mirror glass, mosaic surface.

PRICE ... C 107 12" diameter ... .. £ 5 0 0 each  
Weight 9 lbs.

C 108 16" diameter ... .. 7 5 0 „  
Weight 13 lbs.

Large sizes up to 4 ft. diameter can be supplied. Prices on application.

PRICE ... C 109 Clockwork rotator ... .. £ 1 11 6 each  
Weight 2 lbs.

C 110 Electric motor rotators, from ... 8 15 0 „



Mirror Ball and Rotator

Telephone :  
Temple Bar 7464 (6 lines).

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Spotlite, Rand, London.

**FLORAL STREET, COVENT GARDEN, W.C.2**



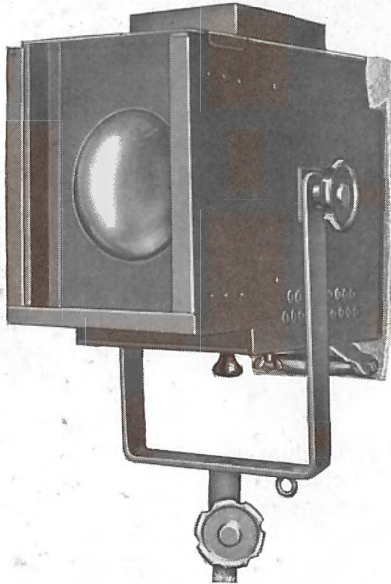
# STRAND ARC SPOTLIGHTS

While the perfection of new types of concentrated filament gas-filled projector lamps has enabled the arc to be almost completely banished from the stage it still remains the best means of obtaining a bright source of light for spotlights, such as are used for following artists from the front of house.

On the following pages are listed a complete range of arc spotlights from the simple 15 ampere stage arc to the last word in front of house spotting—the Stelmar Arc.

It will be noticed that some of the smaller types may be used with white flame carbons on A.C. supply. This practice is not recommended owing to noise, and A.C. should only be used as a last resort.

**All STRAND arc spotlights are now fitted with heat-resisting lenses**



## PATTERN 23 A STAGE ARC SPOT 15—20 Amp.

This lantern is a general purpose spotlight for light duty on short throws not exceeding 50 ft.

### SPECIFICATION

Double cased lantern, asbestos lined, constructed in heavy gauge planished steel, efficiently ventilated. Fitted with 6" diameter 9" focus heat-resisting lens. Tilting fork with 3" diameter locking wheels. Colour runners on the front to take three millboard colour frames. Asbestos curtain at rear.

ARC.—2-movement hand feed, carried on sliding tray, focussing by knob underneath. Rockbestos wiring to pair of connection terminals.

PRICE (complete with Arc Lamp) ... £11 0 0

	£	s.	d.
D 85 Linen-bound millboard colour frames (10 $\frac{3}{4}$ " x 7 $\frac{1}{2}$ " ) ... .. .	0	8	3 per doz.
D 86 Ditto, with assorted gelatines ... .. .	0	11	0 "
D 87 Ditto, with assorted "Chromoid" colours ... .. .	1	4	6 "
D 60 Light pattern telescopic stand (minimum height 4' 3", maximum 7' 0") ...	1	5	0 each
D 113 Flange plate stand, 6" high ... .. .	0	4	0 "
D 104 Iris diaphragm ... .. .	3	2	6 "

For suitable Resistances, see page 45

D.C. CARBONS. (Prices see page 106).

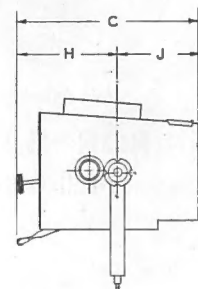
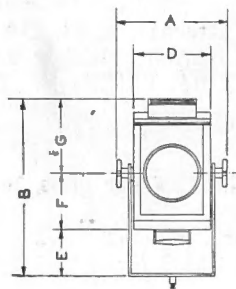
14 m/m diam. Positive (cored).

10 m/m diam. Negative (solid).

Arc Volts, 50.

A.C. CARBONS. (Prices see page 106).

10 m/m diam. White Flame. Arc Volts, 25.



A		D		H		
Ft.	In.	Ft.	In.	Ft.	In.	
B	...	11 $\frac{1}{2}$	8 $\frac{1}{2}$	G	...	7 $\frac{1}{2}$
A	...	1	6 $\frac{1}{2}$	E	...	9 $\frac{1}{2}$
C	...	1	6 $\frac{1}{2}$	F	...	9

Nett weight of Lantern, 26 lbs.

Telephone :  
Temple Bar 7464 (6 lines).

**STRAND ELECTRIC  
AND ENGINEERING CO., LTD.**

Telegraphic Address :  
Spotlite, Rand, London.

**FLORAL STREET, COVENT GARDEN, W.C.2**



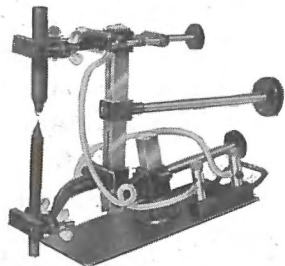
# STRAND ARC SPOTLIGHTS

## PATTERN 22 FRONT OF HOUSE SPOTTING ARC 30-40 Amp.

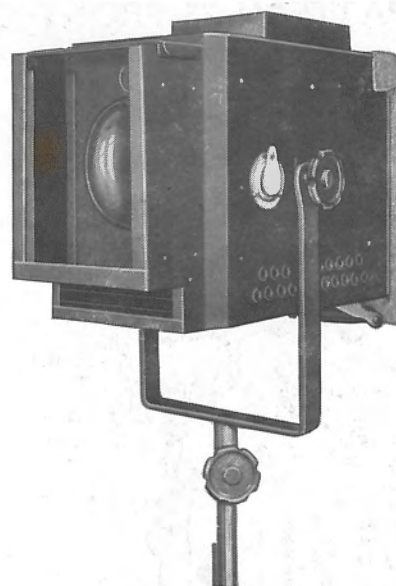
This lantern is a good general purpose arc, suitable for spotting and following artists on throws up to 70 ft. long.

### SPECIFICATION

Double cased lantern, asbestos lined, constructed in heavy gauge planished steel, efficiently ventilated. Fitted with 6" diameter 9" focus heat-resisting lens. Tilting fork and quadrant with 3" diameter locking wheels. Colour runners on front to take three millboard colour frames. Asbestos rear screen.



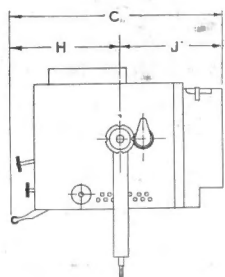
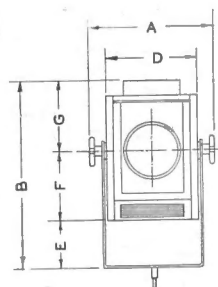
ARC LAMP.—3-movement hand feed, carried on sliding tray, rack and pinion focussing. Rockbestos wiring to pair of connection terminals.



PRICE ... £16 10 0

				£	s.	d.	
<del>D 119</del> <sup>D 85</sup>	<del>Linen-bound millboard colour frames (10<math>\frac{3}{4}</math>" x 7<math>\frac{1}{2}</math>")</del>	...	...	0	8	3	per doz.
<del>D 120</del> <sup>D 86</sup>	<del>Ditto, with assorted gelatines</del>	...	...	0	11	0	"
<del>D 121</del> <sup>D 87</sup>	<del>Ditto, with assorted "Chromoid" colours</del>	...	...	1	4	6	"
D 66	Heavy pattern telescopic stand (minimum height 4' 3", minimum 7' 0")	...	...	1	10	6	each
D 113	Flange plate stand, 6" high	...	...	0	4	0	"
D 104	Iris diaphragm	...	...	3	2	6	"

Suitable Resistances (see page 45)



PATTERN 22		PATTERN 22		PATTERN 22	
	Ft. Ins.		Ft. Ins.		Ft. Ins.
A	1 2	D	9 $\frac{1}{2}$	G	8
B	1 8 $\frac{1}{2}$	E	6	H	11
C	1 10	F	6 $\frac{1}{2}$	J	11 $\frac{1}{2}$

Nett weight of lantern, 32 lbs.

D.C. CARBONS (Prices see page 106).

25-30 amp. 16 m/m diameter Positive (cored).  
11 m/m diameter Negative (No. 19).  
40-50 amp. 18 m/m diameter Positive (cored).  
12 m/m diameter Negative (No. 19).

Arc Volts, 50.

A.C. CARBONS. (Prices see page 106)

30-35 Amp. 13 m/m White Flame.  
35-40 Amp. 14 m/m White Flame.  
Arc Volts, 25-28.

## PATTERN 42 COMBINED SPOTTING & OPTICAL EFFECTS LANTERN

Specification and external appearance as Pattern 22 above, but fitted with auxiliary lens and effects runner, enabling it to carry the effects attachments listed on page 58.

PRICE (complete with two 6" x 8" Heat-resisting Lenses) ... £18 15 0

Accessories, see above.



# STRAND ARC SPOTLIGHTS

## PATTERN 75 FRONT OF HOUSE SPOTTING ARC, 80 Amp.



This lantern has been designed for front of house spotting over the long throws that are common in the modern cinema

### SPECIFICATION

Lamphouse constructed of cold rolled and close annealed sheet steel on a cast aluminium base and back. The housing consists of an inner and outer frame, with air space between, giving efficient ventilation.

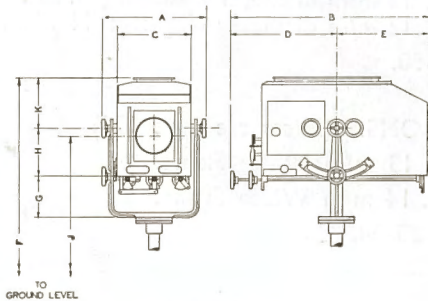
Vertical and horizontal barn door shutters and iris diaphragm operated by handwheels at the rear. Double runners for colour mediums and a cast front to take effects attachments are provided.

6 in. diameter 9 in. focus plano-convex *heat-resisting lens* in removable mount. Asbestos curtain at rear. Tilting fork and quadrant. Heavy pattern telescopic stand and cast base. Finish : crystalline black enamel outside, matt black inside, nickel-plated wheels and fittings.

ARC LAMP.—Six movement hand feed type, carrying up to 80 amperes, rack and pinion focussing, with indicator scale.

Connector box is fitted in lamphouse.

PRICE (complete with Stand) ... **£36 15 0**



PATTERN 75

	Ft.	Ins.	Ft.	In.
A ...	1	6	F ...	4 10 Min.
B ...	2	6	G ...	8
C ...	1	0	H ...	7
D ...	1	5	J ...	4 9 Max.
E ...	1	1	J ...	3 11 Min.
F ...	5	8 Max.	K ...	10

Nett weight of Lantern, 100 lbs.

Nett weight of Stand, 56 lbs.

	£	s.	d.
D 122 Assorted gelatine mediums, cut to size ... ..	6	0	per doz.
D 123 Assorted "Chromoid" colours, cut to size ... ..	1	5	0 ,,
D 124 Effect attachment with 6 in. condenser ... ..	2	14	6 each
D 125 Metal colour frames ... ..	0	3	0 ,,
D 126 Colour wheel with gelatine mediums	1	14	6 ,,
D 127 Rainbow wheel with gelatine mediums ... ..	2	8	6 ,,
D 128 Flicker wheel ... ..	1	9	0 ,,

Suitable Resistances, see page 45.

Optical Effect Accessories, see page 58.

Effective throw 150 ft. Angle of tilt below horizontal 35°.

D.C. CARBONS (prices see page 106).

80 Amp. 22 m/m Positive (Cored)	} Arc Volts 52
11 m/m Negative (Cored and Copper-coated)	

Telephone :  
Temple Bar 7464 (6 lines).

**STRAND ELECTRIC**  
**AND ENGINEERING CO., LTD.**  
**FLORAL STREET, COVENT GARDEN, W.C.2**

Telegraphic Address :  
Spotlite, Rand, London.



# STRAND ARC SPOTLIGHTS

## PATTERN 70 MAGAZINE SPOTTING ARC, 80 amp.

This lantern is the ideal cinema front-of-house spotlight. The colour magazine gives complete control from the rear of lantern.

### SPECIFICATION

Lamphouse constructed of cold rolled and close annealed sheet steel on a cast aluminium base and back. The housing consists of an inner and outer frame, with air space between, giving efficient ventilation.

The cast front portion carries a colour magazine with four colour frames sliding in metal runners. These are operated by tracker chains, attached to quadrant type levers at the back of the lamphouse. Each lever is fitted with quick release catch, which locks the lever when in the "off" position. Double runners for additional colours and further runner to take optical effects attachments are provided.

Vertical and horizontal barn door shutters and iris diaphragm, operated by handwheels at the rear.

6 in. diameter, 9 in. focus plano-convex *heat-resisting lens* in removable mount. Asbestos curtain at rear. Tilting fork and quadrant. Heavy pattern telescopic stand and cast base. Finish: crystalline black enamel outside, matt black inside, nickel-plated wheels and fittings.

ARC LAMP.—Six movement hand-feed type, carrying up to 80 amperes, rack and pinion focussing, with indicator scale.

Connector box is fitted in lamphouse.

PRICE (complete with Stand) ... £57 10 0

		£	s.	d.
D 122	Assorted gelatine mediums, cut to size	6	0	per doz.
D 123	Assorted "Chromoid" colours, cut to size	10	0	,, ,,
D 124	Effect attachment	2	14	6 each
D 125	Metal colour frames	0	3	0 ,,
D 126	Colour wheel with gelatine mediums	1	14	6 ,,
D 127	Rainbow wheel with gelatine mediums	2	8	6 ,,
D 128	Flicker wheel	1	9	0 ,,

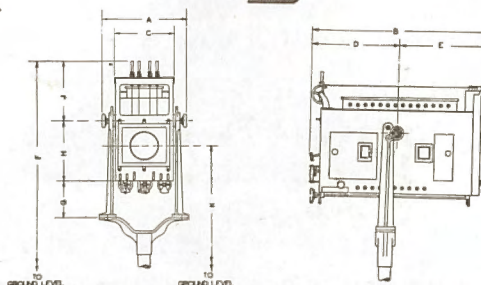
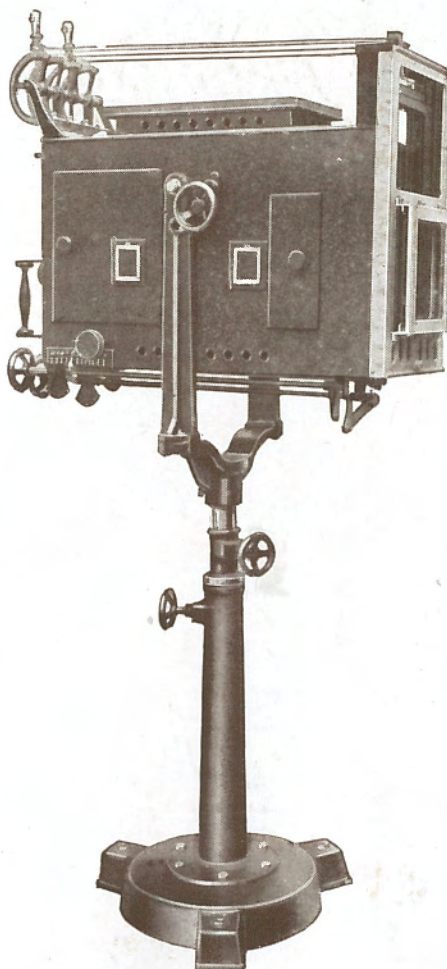
Suitable Resistances, see page 45.

Optical Effect Accessories, see page 58.

Effective throw, 150 ft. Angle of tilt below horizontal, 35°.

D.C. CARBONS (prices see page 106).

80 amp. 22 m/m diam. Positive (Cored)	} Arc Volts 52
11 m/m5 diam. Negative (Cored)	
and Copper-coated)	



PATTERN 70

	Ft.	In.		Ft.	In.
A	...	1 5 1/2	F	...	5 6 1/2 Min.
B	...	3 1	G	...	1 1
C	...	1 0	H	...	1 1
D	...	1 6 1/2	J	...	1 1
E	...	1 6 1/2	K	...	4 11 1/2
F	...	6 4 1/2 Max.	K	...	4 1 1/2

Nett weight of Lantern, 154 lbs.

Nett weight of Stand, 145 lbs.

**STRAND ELECTRIC  
AND ENGINEERING CO., LTD.**

Telephone :  
Temple Bar 7464 (6 lines).

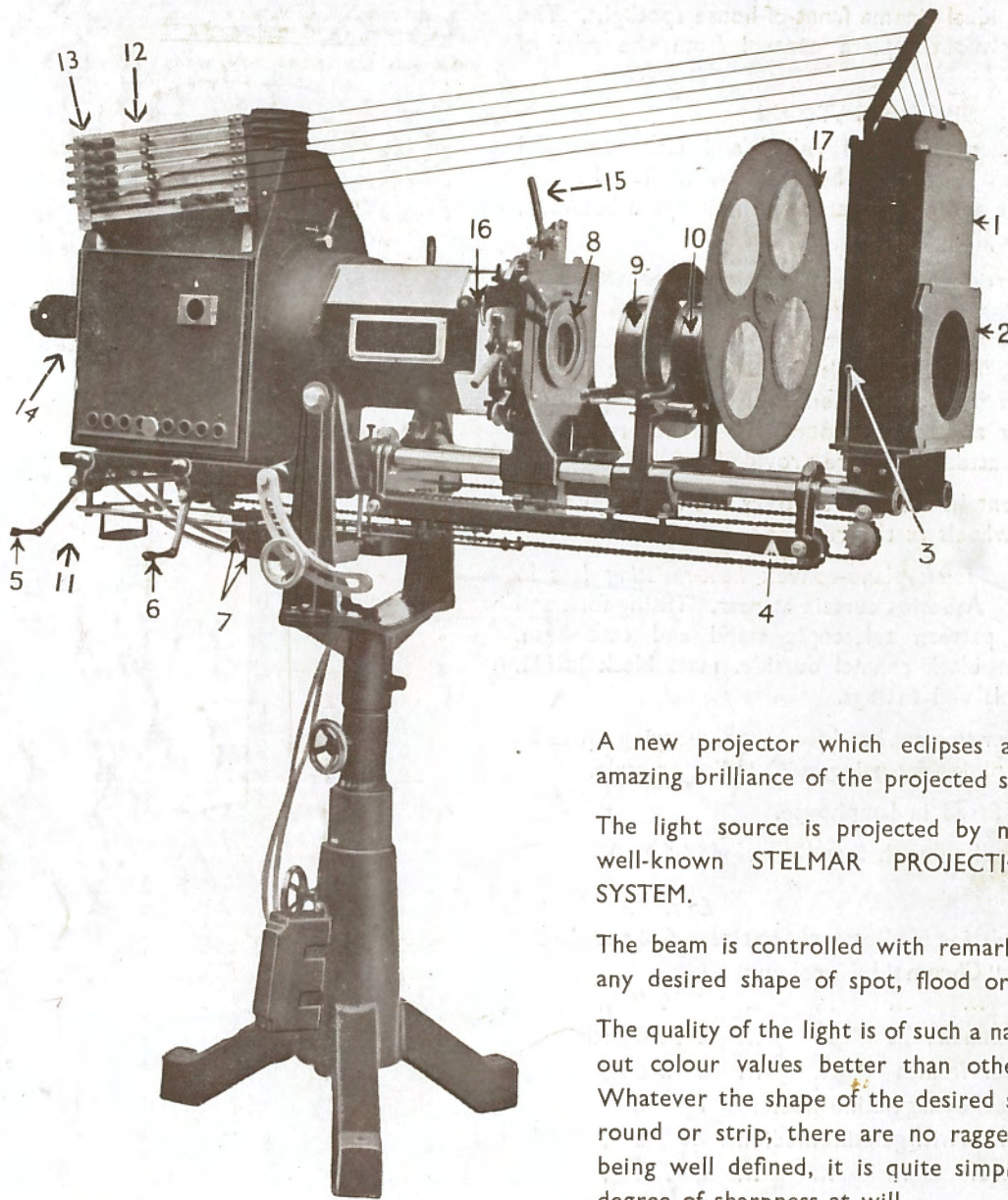
**FLORAL STREET, COVENT GARDEN, W.C.2**

Telegraphic Address :  
Spotlite, Rand, London.



# STRAND ARC SPOTLIGHTS

## THE STELMAR HIGH INTENSITY SPOT AND FLOOD PROJECTOR



..  
 PRICE  
 ON  
 APPLICATION  
 ..

1. Interchangeable colour frames in separate guides.
2. Runners for additional colour mediums.
3. Viewscope object finder.
4. Pre-set spot and flood indicator scale.
5. Controller for effects, flood and spot lighting.
6. Controller for spot and flood lenses.
7. Counterweights ensuring perfect balance of spotlight at any angle.
8. Adjustable spot iris diaphragm.
9. Flood lens holder.
10. Spot lens holder.
11. Master black-out controller.
12. Quick release colour medium controllers.
13. Windows indicating colour operated by controllers.
14. Viewscope object finder.
15. Heavy type vertical and horizontal cut-offs for focussed strip and masked lighting.
16. Runners for effects.
17. Interchangeable colour wheel.

A new projector which eclipses all others by the amazing brilliance of the projected spot.

The light source is projected by means of the now well-known STELMAR PROJECTION LIGHTING SYSTEM.

The beam is controlled with remarkable ease to give any desired shape of spot, flood or effect.

The quality of the light is of such a nature that it brings out colour values better than other types of lamp. Whatever the shape of the desired spot, be it square, round or strip, there are no ragged edges, the spot being well defined, it is quite simple to produce any degree of sharpness at will.

The whole projector can be tilted and moved through any angle of tilt with finger pressure, perfect counterweighting gives wonderful balance.

A special gun sight is a feature of every Stelmar spot, enabling the operator to pre-set his spot for any desired position before opening the dowser.

Telephone :  
 Temple Bar 7464 (6 lines).

**STRAND ELECTRIC**  
**AND ENGINEERING CO., LTD.**  
**FLORAL STREET, COVENT GARDEN, W.C.2**

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# STRAND ARC RESISTANCES

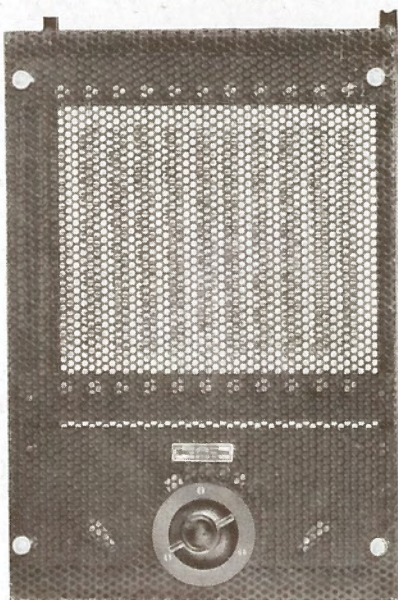


Fig. 1  
Radial Switch Type

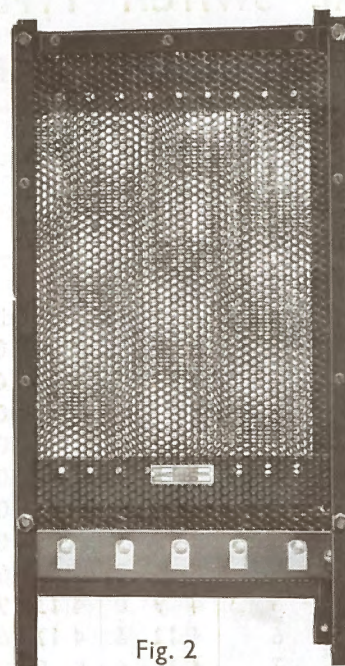


Fig. 2  
Standard Type.

## IMPORTANT

Covers being essential to comply with the Regulations of most local Authorities, prices include these in all cases.

*Please read Resistance Notes on page 48.*

## SPECIFICATION

**FRAME.** Wrought Iron, Wall, Floor or Portable Type at same price.

**SLATE.** Best Selected, free from Metallic Veins.

**INSULATION.** All Slates are Insulated from Framework by suitable Bushings and Washers.

**TERMINALS AND STUDS.** Brass throughout, fitted with Two Washers and Lock-Nuts at every connection.

**SWITCHES.** Radial type fitted with Laminated Phosphor Bronze Brushes. "Quick Break" Knife or Chopper Type fitted to resistances with Parallel Circuits.

**COVER.** Perforated Steel enclosing all "Live" Metal.

Telephone :  
Temple Bar 7464 (6 lines).

**STRAND ELECTRIC**  
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# STRAND ARC RESISTANCES

## RADIAL SWITCH TYPE (Fig. 1)

PRICES SHOWN BELOW ARE INCREASED BY 10%

Amps. Min.-Max.	Switch Contacts	Volts Absorbed—Difference between Generator and Arc Voltage							
		10	20	30	40	50	60	70	80
		£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
5-10	6	2 12 0	2 15 0	2 18 0	3 0 0	3 2 0	3 4 0	3 6 0	3 8 0
5-15	6	2 15 0	2 17 6	3 0 0	3 3 0	3 5 6	3 7 6	3 10 0	3 12 6
5-20	6	2 17 0	3 0 0	3 3 0	3 6 0	3 9 0	3 12 0	3 15 0	3 18 0
5-25	6	3 2 0	3 5 0	3 9 0	3 13 0	3 16 6	4 0 0	4 3 6	4 7 0
10-30	6	3 5 0	3 10 0	3 15 0	4 0 0	4 4 0	4 8 0	4 12 0	4 16 0
10-40	5	3 10 0	3 16 0	4 4 0	4 12 0	4 19 0	5 6 0	5 13 0	6 0 0
10-50	5	3 17 6	4 1 0	4 11 0	5 1 0	5 10 0	5 19 0	6 8 0	6 17 0
20-60	5	4 5 0	4 10 0	4 19 0	5 8 0	5 17 0	6 6 0	6 15 0	7 4 0
20-70	6	4 9 0	4 13 9	5 5 0	5 16 3	6 7 6	6 18 6	7 9 6	8 0 0
30-80	6	4 12 6	4 17 6	5 11 6	6 5 6	6 19 6	7 13 6	8 7 6	9 1 6
30-90	7	4 17 6	5 5 0	6 4 0	7 2 0	8 0 0	8 18 0	9 16 0	10 14 0
30-100	8	5 2 6	5 12 6	6 12 0	7 11 0	8 10 0	9 10 0	10 10 0	11 7 6

Amps. Min.-Max.	Switch Contacts	Volts Absorbed—Difference between Generator and Arc Voltage							
		150	160	170	180	190	200	210	220
		£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
5-10	6	4 0 0	4 2 0	4 4 0	4 6 0	4 8 0	4 10 0	4 12 0	4 14 0
5-15	6	4 15 0	4 17 6	5 0 0	5 2 6	5 5 0	5 7 6	5 10 0	5 12 6
5-20	6	5 10 0	5 13 0	5 16 0	5 19 0	6 2 0	6 5 0	6 8 0	6 11 0
5-25	6	6 5 0	6 8 6	6 12 0	6 15 6	6 19 0	7 2 6	7 6 0	7 9 6
10-30	6	6 12 0	6 16 0	7 0 0	7 4 0	7 8 0	7 12 0	7 16 0	8 0 0
10-40	5	8 5 0	8 12 0	8 19 0	9 3 0	9 7 0	9 11 0	9 15 0	9 19 0
10-50	5	10 0 0	10 9 0	10 18 0	11 6 0	11 13 0	12 0 0	12 7 0	12 14 0
20-60	5	12 15 9	13 1 0	13 6 0	13 11 0	13 16 0	14 1 0	14 6 0	14 11 0
20-70	6	14 8 9	14 15 0	15 1 0	15 7 0	15 14 0	16 0 0	16 6 0	16 12 0
30-80	6	16 4 9	16 13 0	17 1 0	17 9 0	17 17 0	18 5 0	18 13 0	19 1 0
30-90	7	18 0 9	18 8 0	18 16 0	19 4 0	19 12 0	20 0 0	20 8 0	20 16 0
30-100	8	19 6 9	19 17 6	20 8 3	20 19 0	21 10 0	22 0 0	22 10 0	23 0 0

ADDITIONAL CONTACT STUDS FITTED AT SMALL EXTRA COST

Please read Resistance Notes on Page 48.

Telephone :  
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# STRAND ARC RESISTANCES

STANDARD TYPE one Circuit without Switches (Fig. 2)

PRICES SHOWN BELOW ARE INCREASED BY 10%

Max. Amps.	Volts Absorbed—Difference between Generator and Arc Voltage							
	10	20	30	40	50	60	70	80
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
10	2 5 0	2 6 0	2 7 0	2 8 0	2 9 0	2 10 0	2 11 0	2 12 0
15	2 5 6	2 7 0	2 8 0	2 10 0	2 11 0	2 12 6	2 14 0	2 16 0
20	2 6 0	2 8 0	2 10 0	2 12 0	2 13 0	2 15 0	2 17 0	3 0 0
25	2 6 6	2 9 0	2 11 0	2 14 0	2 15 0	2 17 6	3 0 0	3 4 0
30	2 7 0	2 10 0	2 13 0	2 16 0	2 17 0	3 0 0	3 4 0	3 8 0
40	2 8 0	2 11 0	2 15 0	2 19 0	3 1 6	3 4 0	3 10 0	3 15 0
50	2 9 0	2 13 0	2 17 0	3 2 0	3 5 0	3 8 0	3 15 0	4 2 0
60	2 10 0	2 15 0	3 0 0	3 5 0	3 9 0	3 13 0	4 1 0	4 9 0
70	2 11 0	2 17 0	3 3 0	3 8 0	3 13 0	3 18 0	4 7 0	4 16 0
80	2 12 0	2 19 0	3 5 0	3 11 0	3 17 0	4 3 0	4 13 0	5 3 0
90	2 13 0	3 0 0	3 7 0	3 14 0	4 1 0	4 8 0	4 19 0	5 10 0
100	2 14 0	3 1 0	3 9 0	3 17 0	4 5 0	4 13 0	5 2 0	5 17 0

Max. Amps.	Volts Absorbed—Difference between Generator and Arc Voltage							
	150	160	170	180	190	200	210	220
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
10	2 17 0	2 18 0	2 19 0	3 0 0	3 1 0	3 2 6	3 4 0	3 5 6
15	3 2 0	3 3 0	3 4 0	3 10 0	3 11 0	3 12 0	3 13 0	3 19 0
20	3 7 0	3 8 0	3 9 0	3 15 0	3 16 0	3 17 0	3 18 0	4 4 0
25	3 12 0	3 13 0	3 14 0	4 0 0	4 1 0	4 2 0	4 3 0	4 9 0
30	3 17 0	4 3 0	4 4 0	4 5 0	4 6 0	4 7 0	4 13 0	4 14 0
40	4 12 0	5 8 0	5 9 0	5 11 0	5 13 0	6 0 0	6 2 0	6 4 0
50	5 2 0	5 18 0	5 19 0	6 1 0	6 8 0	6 10 0	6 12 0	6 14 0
60	6 7 0	6 8 0	6 14 0	6 16 0	6 18 0	7 0 0	7 7 0	7 9 0
70	6 17 0	7 3 0	7 4 0	7 6 0	7 8 0	7 15 0	7 17 0	8 4 0
80	7 12 0	7 13 0	7 14 0	8 1 0	8 3 0	8 5 0	8 12 0	8 14 0
90	8 2 0	8 3 0	8 9 0	8 11 0	8 13 0	9 0 0	9 12 0	9 14 0
100	8 17 0	8 18 0	9 4 0	9 6 0	9 18 0	10 0 0	10 10 0	10 12 0

Please read Resistance Notes on Page 48.

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# STRAND ARC RESISTANCES

## PARALLEL TYPE

The resistances shown on page 47 can be divided into a number of circuits controllable by separate switches, prices being calculated as follows :—

The price of a single circuit resistance of the total load required should be taken from page 47 and the following additions made.

				Terminals only	Including enclosed Knife Switches.	
				s. d.	£	s. d.
For each circuit	10-20 amps.	...	...	5 6	...	0 16 9
„	„ 21-40	„	...	6 6	...	1 0 0
„	„ 41-60	„	...	7 6	...	1 3 6

*The above Prices are increased by 10%*

Parallel type resistances fitted with contactors for operation from remote control panels (see page 86) can be supplied to order.

## IMPORTANT

Generally the voltage across a hand fed Arc is 45 to 50, but in view of the fact that many different types are in general use some burning satisfactorily with 30 volts across the carbons, whereas others require 70 volts, it is advisable in all cases to ascertain and specify the voltage recommended by the makers.

It is also important that the voltage of supply be kept constant at all loads and the carbons correctly adjusted. Inattention to these points can cause serious overheating and possibly breakdown, especially with low voltage resistances.

The difference between voltage of supply and voltage across arc is the voltage absorbed in the resistance on which basis our prices are calculated.

It is not advisable to fix resistances in confined spaces or close to ceilings, free ventilation being essential.

Parallel type resistances with knife or contactor switches should always be used for heavy currents and for high voltages.

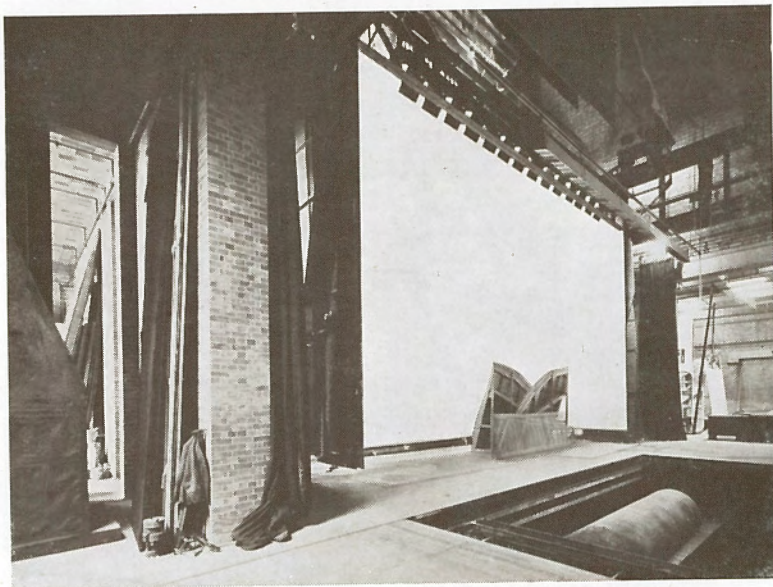
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Temple Bar 7464 (6 lines).

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# STRAND CYCLORAMA LIGHTING



*Cyclorama at Shakespeare Memorial Theatre, Stratford-on-Avon*

The uses of the cyclorama are now fully realised in the theatre. While the true cyclorama conditions can seldom be achieved, its principles may be applied to a lesser degree with advantage.

The more elaborate form, such as installed at the Royal Opera House, Covent Garden, consists of a special white cloth suspended from a track (in the flies), which completely encompasses the stage. The cloth hangs free of all creases and folds, and is flooded from banks of STRAND pattern 49 floods, arranged on the three-colour (Red, Blue and Green) system. There is a total of 150-1000 watt Floods. The wattage of the blue is approximately double that of either the Red or Green. Thus, beyond the Proscenium, the stage is bounded by an evenly lighted cyclorama, borders, enabling him to give free

rendering the scenic artist free of the need for masking wings and rein to his imagination.

It is generally impossible for one reason or another to achieve the ideal above. Several compromises are possible, and IT IS NOT NECESSARY FROM THE POINT OF VIEW OF LIGHTING EFFECTS TO USE A CURVED CYCLORAMA. A very satisfactory effect can be obtained by plastering the rear wall of the stage, or even with a white back cloth stretched tightly. However, it must be remembered the greater the space occupied by the cyclorama, the less masking required.

Not only must the lighting for the cyclorama itself be carefully considered, but the remainder of the stage installation must be planned so that stray light from the acting area does not ruin the effect. Here acting area lanterns, spot battens and front of circle spots have their part to play.

For Repertory Theatres and Cinemas the three-colour system which provides innumerable colours by mixing the three primaries in different proportions with specially wound C.D. Dimmers (see page 71) gives the utmost satisfaction. However, for certain kinds of work, particularly where a limited number of effects are required for the long run of a particular production, special colours may prove more economical.

Strand Electric are justly proud of their achievements in both fields, and the experience of their theatre lighting department is placed at the customer's disposal, not only as regards the lighting equipment, but the design of the cyclorama as well.

Among the most notable of the STRAND three-colour cyclorama installations are:—

- |                                                                                            |                                                                  |
|--------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| The Covent Garden Opera House.                                                             | The Shakespeare Memorial Theatre, Stratford-on-Avon.             |
| The Regal Cinema, Edmonton. (The 60 ft. Cyclorama is the largest in any Cinema in Europe.) |                                                                  |
| The "Old Vic," London.                                                                     | Bristol University Theatre.                                      |
| The Westminster Theatre, London.                                                           | Gaumont Palaces—Hammersmith, Lewisham, Wood Green, Chelsea, etc. |
| Sadler's Wells Theatre, London.                                                            | Gaumont State Kilburn.                                           |
| Citizen House, Bath.                                                                       | Odeon Alhambra, etc.                                             |
| Arts Theatre, Cambridge.                                                                   |                                                                  |

Cyclorama or Panorama Lighting Battens have also been installed in Palace, Savoy, Dominion, Adelphi, Phoenix, and Drury Lane Theatres, London.

Telephone :  
Temple Bar 7464 (6 lines).

**STRAND ELECTRIC  
AND ENGINEERING CO., LTD.**

Telegraphic Address :  
Spotlite, Rand, London.

**FLORAL STREET, COVENT GARDEN, W.C.2**



# STRAND CYCLORAMA LIGHTING

## CIRCULAR CYCLORAMA FLOOD

**PATTERN 55**



**500 Watt**

This lantern, which is a shortened version of the Pattern 35 Arena, designed for horizontal use, has superseded the Pattern 34 Panorama Lantern. Owing to its more efficient light distribution it gives an intensity of light on the cyclorama with a 500 watt General Service Lamp that is actually greater than the old German type or panorama with a 1000 watt projector or special tubular lamp. Four such lanterns (one red, one green and two blue) would be eminently suitable for small school stages, etc. A much higher efficiency is shown when comparing the wattage used on this principle and that required when wide spread 150 watt battens are used for this purpose.

### SPECIFICATION

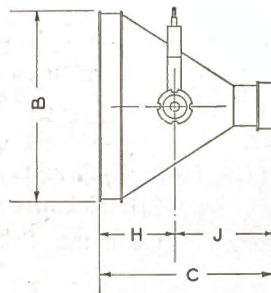
Lantern constructed in lead-coated steel, efficiently ventilated, fitted with circular hinged door carrying 16 in. diameter circular metal colour frame. One-piece Type 35 domed "SUNRAY" reflector. Tilting fork and 3 in. diameter locking wheels. Wired with 2 ft. rockbestos tails. Finish: black enamel outside white enamel inside.

PRICE (exclusive of Lamp) ... **£5 2 6**

						£	s.	d.
E 70	Extra 16 in. diameter metal colour frames	...	...	...	...	2	6	6 per doz.
E 71	Ditto, complete with assorted gelatines	...	...	...	...	2	19	6 "
E 72	Ditto, complete with assorted "Chromoid" colours	...	...	...	...	3	19	6 "
E 65	"L" clamp for 1½ in. barrel	...	...	...	...	0	2	9 each

Lamp: 500 watt Angle Burning General Service.

Beam Angle 105°.  
Cut Off Angle 120°.



Minimum throw, 6 ft.

For Polar Curves see  
Pattern 60, page 21.

### PATTERN 55

	Ft.	In.		Ft.	In.
B ...	1	4½	H ...	6½	
C ...	1	3	J ...	8½	

Nett weight of Lantern, 18½ lbs.

Telephone:  
Temple Bar 7464 (6 lines).

**STRAND ELECTRIC**  
**AND ENGINEERING CO., LTD.**  
**FLORAL STREET, COVENT GARDEN, W.C.2**

Telegraphic Address:  
Spotlite, Rand, London.



# STRAND CYCLORAMA LIGHTING

## SQUARE CYCLORAMA FLOOD

**PATTERN 49 B**



**1000 Watt**

This lantern has been specially designed for large cyclorama work. Its shape renders it convenient, as it takes little space from back to front.

### SPECIFICATION

Lantern constructed in lead-coated steel, efficiently ventilated. Runner to take metal colour frame, hinged spring flap at top. Four-piece Type 49A silvered glass "SUNRAY" reflector. Tilting fork and 3 in. diameter locking wheels. 10 ampere plug with earth connection and clip. Finish: black enamel outside, white enamel inside.

PRICE (exclusive of Lamp) ... **£5 7 6**

							£	s.	d.
E 67	Metal colour frames (16 $\frac{3}{4}$ in. x 16 $\frac{3}{4}$ in.)	...	...	...	...	...	1	10	6 per doz.
E 68	Ditto, complete with gelatine colours	...	...	...	...	...	2	6	6 "
E 69	Ditto, complete with "Chromoid" colours	...	...	...	...	...	3	3	6 "
E 129	Ditto, complete with coloured glass strips	...	...	...	...	...	5	17	6 "
E 65	"L" clamp for use when suspended on a barrel	...	...	...	...	...	0	2	9 each

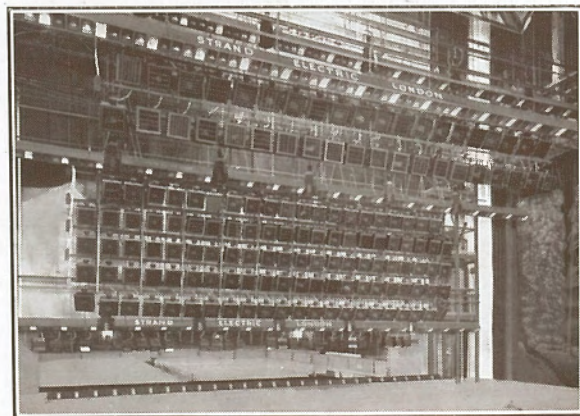
*Prices can be quoted for Angle Iron Frames and Suspensions on receipt of requirements.*

Overall Dimensions and Polar Curves: see Pattern 49A, page 23.

Nett weight of Lantern, 28 lbs.

Lamp: 1000 watt Angle Burning General Service. G.E.S. Cap.

Beam Angle 100°. Cut Off Angle 105°. Minimum throw, 8 ft.



*Cyclorama Lighting Bank, Covent Garden Opera House*

**STRAND ELECTRIC  
AND ENGINEERING CO., LTD.**

Telephone:  
Temple Bar 7464 (6 lines).

Telegraphic Address:  
Spotlite, Rand, London.

**FLORAL STREET, COVENT GARDEN, W.C.2**



*Cancelled (Details of new provisions, later)*

# STRAND CYCLORAMA LIGHTING

## CYCLORAMA BATTEN 500 Watt

The Pattern 55 Lantern can be incorporated, with a slight loss of efficiency, into a batten of 12 in. square compartments. The loss is more than counterbalanced by its convenience on a crowded stage, as the size is brought down to an absolute minimum. This batten was used at the Regal Cinema, Edmonton, with outstanding success.

### SPECIFICATION

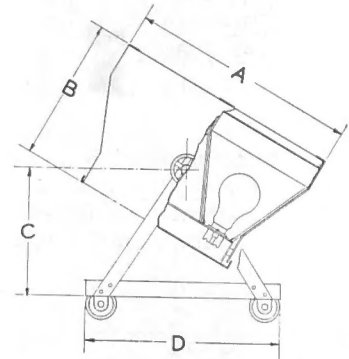
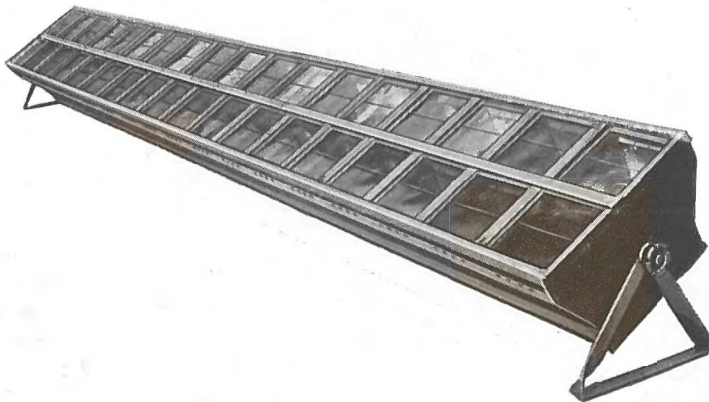
Constructed in sheet steel, efficiently ventilated. Compartments at 12 in. centres. Each fitted with G.E.S. holder and Type 35 "SUNRAY" silvered glass reflector in sprung mounting. Metal colour frames 11½ in. square with guard wires. Wired in coloured rockbestos in four colours. Batten arranged in 4 ft. lengths. Complete with shackles, pear rings, and horseshoes for adjusting tilt. Finish: black enamel outside, white enamel inside.

### PRICE (on application)

	£	s.	d.	
E 62 Gelatine colours, cut to size	...	...	...	0 6 9 per doz.
E 63 "Chromoid" colours, cut to size	...	...	...	1 7 0 "

Lamps: 500 watt Gasfilled General Service. G.E.S. Cap.

## CYCLORAMA GROUNDROWS, TYPE P, 60 or 100 Watt



CYCLORAMA GROUNDROW.

	Ft.	Ins.
A ...	1	3
B ...	0	9
C ...	0	9
D ...	1	0

These are designed for illumination of the cyclorama from below as an auxiliary effect to the top lighting. The groundrows give a highly diffused light, entirely free from "hot spot." They are made in two rows as illustrated, in order that double the number of compartments may be allocated to the blue.

### SPECIFICATION

Constructed in sheet steel, painted white inside, black enamel outside. Compartments at 7 in. centres. Fitted with metal colour frame and guards, complete with gelatine colours. Supplied in 6 ft. sections, carried on end supports giving variable tilt. Three-piece "SUNRAY" silvered glass reflector, giving wide angle beam of light. China E.S. holders, wired in rockbestos cable. Groundrows can be made up as trucks and fitted with castors (see diagram above).

### PRICE (on application)

	£	s.	d.	
E 130 Gelatine colours, cut to size	...	...	...	0 2 3 per doz.
E 131 "Chromoid" colours, cut to size...	...	...	...	0 7 9 "

Lamps: 60 or 100 watt Theatre Batten. E.S. Cap.

Nett weight per 6 ft. length, 105 lbs.

Telephone:  
Temple Bar 7464 (6 lines).

**STRAND ELECTRIC  
AND ENGINEERING CO., LTD.**  
**FLORAL STREET, COVENT GARDEN, W.C.2**

Telegraphic Address:  
Spotlice, Rand, London.



# STRAND CYCLORAMA LIGHTING

ROYAL OPERA HOUSE, COVENT GARDEN, LONDON

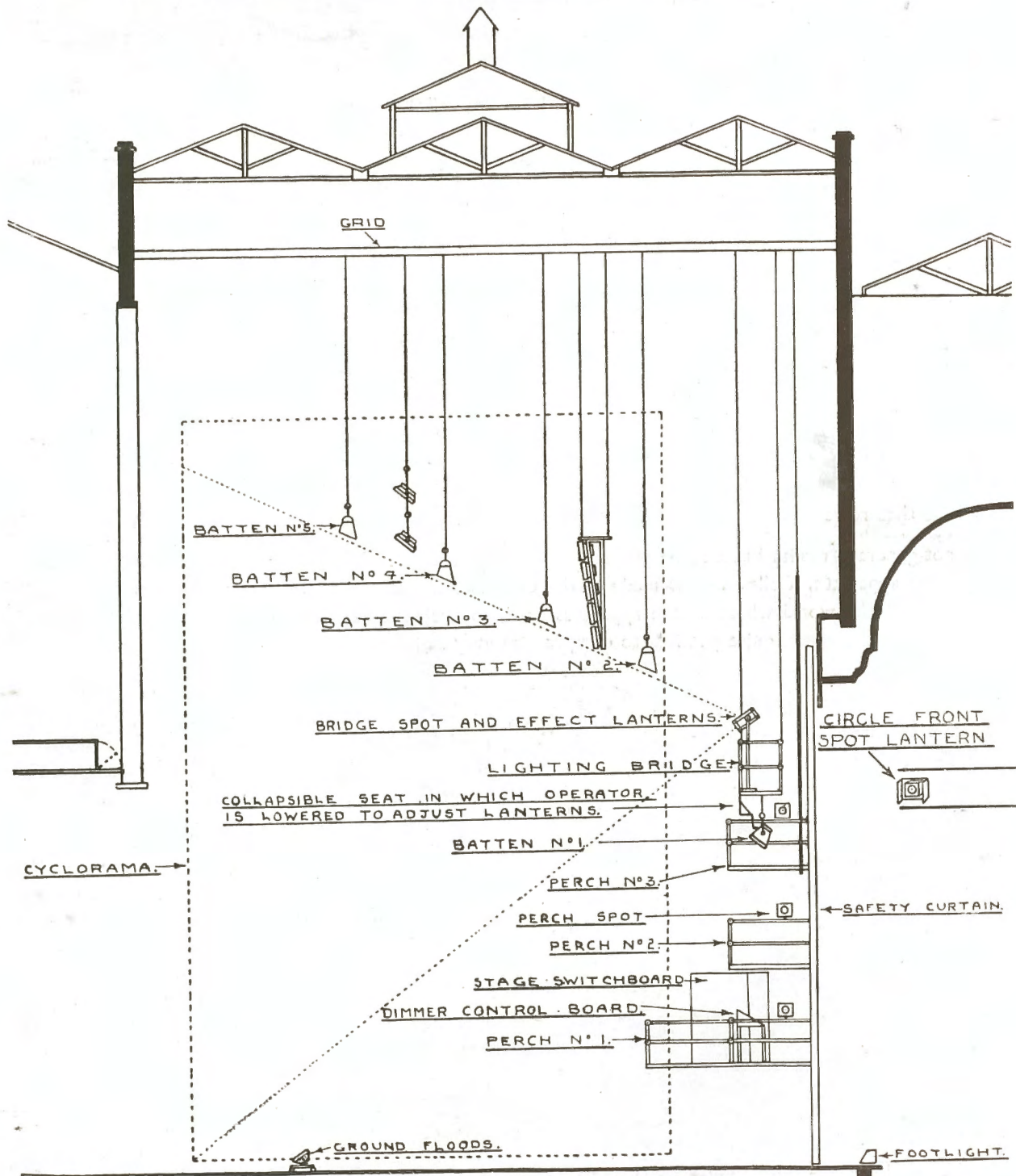


Fig. 7.—General View of the New Strand Electric Stage Lighting Installation, showing Battens, Footlights and Bank of One Hundred and Fifty 1,000-watt Lanterns used to illuminate the Cyclorama.

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# STRAND EFFECTS LIGHTING

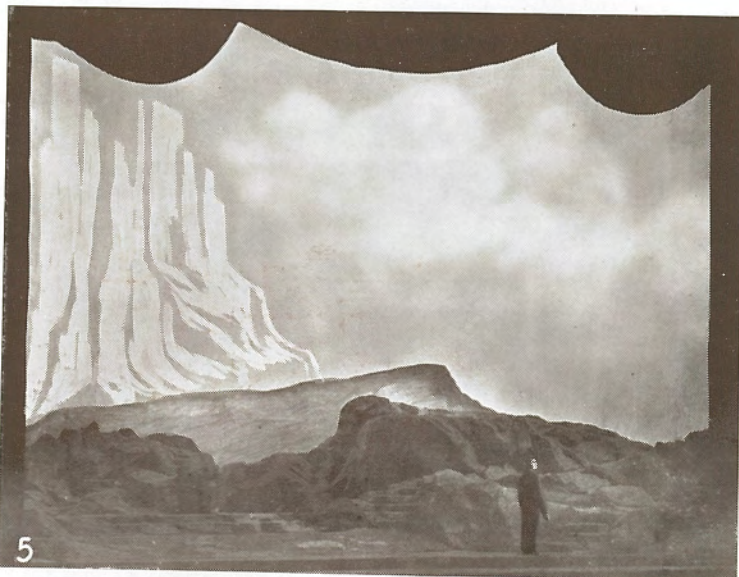
The possibilities of optical effects are fully realized by the producer of to-day. There are situations where an optical effect, be it realist or impressionist, gives a finishing touch to the production unobtainable in any other way.

Wide though the range is of standard optical effects that Strand Electric have to offer, special facilities are provided for carrying out the producer's own ideas. Optical effects, provided their lanterns and projection beams are borne in mind when designing the scenery, may be projected successfully on the largest stages. This is well demonstrated by their extensive use in "The Ring" at the Covent Garden Opera House. Here the effects of under the Rhine, The Rainbow Bridge, the Castle of Valhalla, The Ring of Fire, and The Rise of the Rhine, and extensive use of Clouds are all obtained by optical means.

The varied uses to which STRAND effects have and are put, in revues, pantomimes, and musical plays, at famous London theatres like Drury Lane, The Palace, Lyceum, Hippodrome, and The Saville, are too well known to need description. Extensive use is made of them abroad in the Casino de Paris and the Folies Bergere in Paris.

In the serious theatre, effects must be kept strictly in the background, as they must not distract attention from the actor. However many are the special effects that have been successfully used at the Shakespeare Memorial Theatre, Stratford-on-Avon, The Old Vic, Sadlers Wells, and Westminster Theatre, and in each of these theatres scene projection to a greater or lesser degree has been successfully carried out.

It is not generally realized that scene projection is feasible from STRAND optical effects lanterns without expensive apparatus, if allowance is made in the design of the set and lighting plot. It is not possible anywhere in the world whatever the apparatus used, to project a full stage set and yet fully light the actors; it is, however, quite possible to compromise very satisfactorily.



Optical Effects at Covent Garden Opera House for "Rheingold"

For the Cinema, it is worth noting, that STRAND optical effects fit both the Brenograph and the Ross Effects Machines. Opportunities for their use in Organ Interludes and stage shows are constantly occurring.

Apart from the optical projection of effects, effects lighting can take many forms, and Strand Electric have produced many memorable results in the past, as, for instance, the fireworks effects in "Waltzes from Vienna," at the Alhambra Theatre, the Samoiloff productions at the London Hippodrome, providing complete change of scene under the eyes of the audience, and the Indian Rope Trick in "Golden Toy," at the London Coliseum, carried out by Ultra Violet Rays.

Telephone :  
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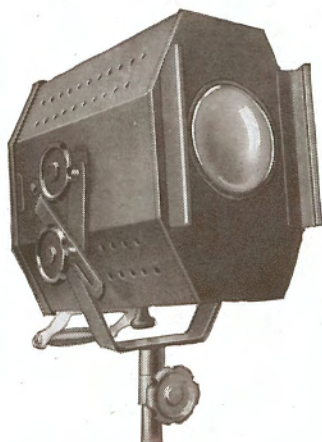


# STRAND EFFECTS LIGHTING

## PATTERN 51. 1000 Watt OPTICAL EFFECTS PROJECTOR

This is a compact lantern, designed for small stages, auditorium, and exhibition work. It will project satisfactorily all the STRAND Optical Effects attachments listed on page 58. Depending on a projector lamp as light source, it makes optical effects possible for all those

whom A.C. or limitations of current have prevented from using arcs.



### SPECIFICATION

Lantern constructed in sheet steel, efficiently ventilated. Access to lamp by hinged door at rear. 5 in. diameter double plano-convex condenser. Type 43 tray, giving vertical and axial adjustment for lamp filament, complete with spherical chromium-plated reflector. Focussing by knob under lantern. Runner to take all standard optical effects attachments. Rockbestos tails, tilting fork and quadrant with 3 in. diameter locking wheels. Removable handle at rear. Finish : black crystalline enamel outside, matt black inside.

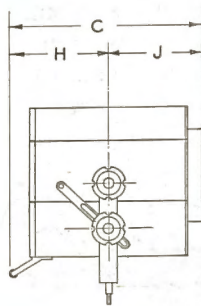
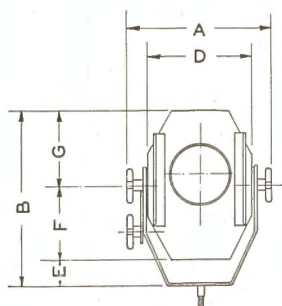
PRICE (exclusive of Lamp) ... £7 2 6

									£ s. d.
F 66	Heavy pattern telescopic stand (minimum height, 4 ft. 3 in. ; maximum, 7 ft. 0 in.)								1 10 6 each
F 64	Safety chain with snap hook	...	...	...	...	...	...	...	0 2 3 ,,
F 65	Adjustable barrel clamp	...	...	...	...	...	...	...	0 7 6 ,,

Heavy base stand and cradle, instead of fork, can be supplied without extra charge.

Lamp : 1000 watt Class A.1 Tubular or Class B.1 Round Bulb Projector.

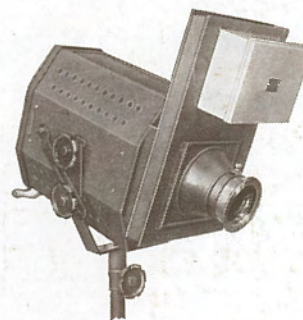
Maximum throw, 60 ft.



PATTERN 51

A	...	Ft.	1	In.	7	F	...	Ft.	7
B	...	1	4			G	...	7	
C	...	1	4½			H	...	8½	
D	...		9½			J	...	8	
E	...		2						

Nett weight of Lantern, 26 lbs.



Pattern 51 with Wave effect

Telephone :  
Temple Bar 7464 (6 lines).

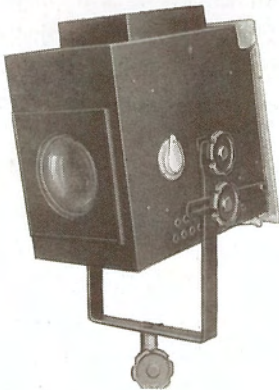
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Telegraphic Address :  
Spotlite, Rand, London.



# STRAND EFFECTS LIGHTING

## PATTERN 33 OPTICAL EFFECTS ARC PROJECTOR 20—40 Amps.



An inexpensive general purpose arc effects lantern for stage use.

### SPECIFICATION

Double cased lantern, asbestos lined, constructed in heavy gauge plished steel, efficiently ventilated. Fitted with 5 in. diameter double plano-convex condenser. Tilting fork and quadrant with 3 in. diameter locking wheels. Runner to take all standard optical effects attachments. Asbestos curtain at rear. Removable handle.

ARC.—Three-movement 20/40 amp. hand feed, carried on sliding tray with locking screw underneath. Rockbestos wiring to pair of connection terminals.

PRICE (complete with Arc Lamp) ... **£15 15 0**

F 66 Heavy pattern telescopic stand (minimum height 4 ft. 3 in., maximum 7 ft. 0 in.) ... .. **£1 10 6** each

For suitable Resistance, see page 46.

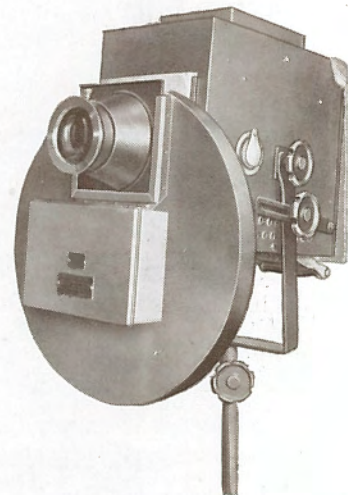
D.C. CARBONS (prices see page 106).

30 amps. 16 m/m Positive (Cored). 11 m/m Negative No. 19.  
Arc Volts 48.

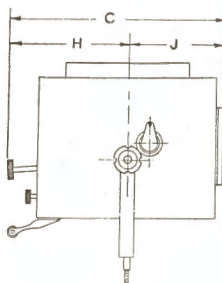
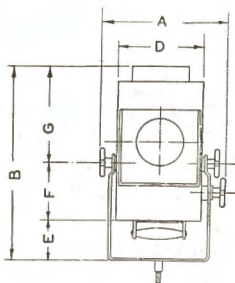
40 amps. 18 m/m Positive (Cored). 12 m/m Negative No. 19.  
Arc Volts 50.

A.C. CARBONS.

13 m/m diameter White Flame. Arc Volts 25.



*Pattern 33 with Cloud Effect*



### PATTERN 33

	Ft.	In.
A ... ..	1	1½
B ... ..	1	8
C ... ..	1	9½
D ... ..		9¼
E ... ..		4
F ... ..		6
G ... ..		10
H ... ..		11½
J ... ..		10

*Nett weight of Lantern, 38 lbs.*

Telephone :  
Temple Bar 7464 (6 lines).

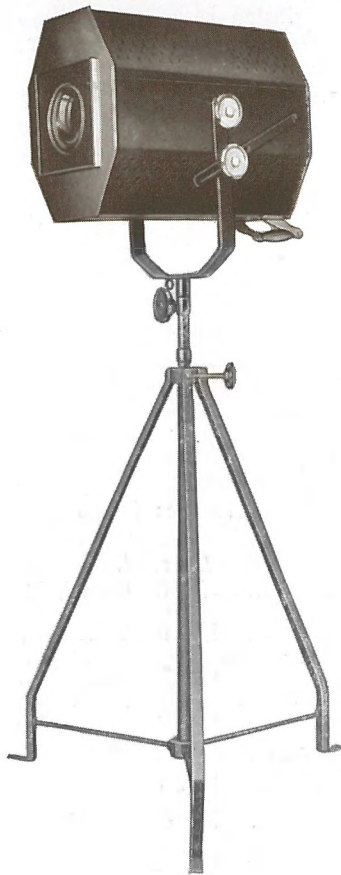
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# STRAND EFFECTS LIGHTING

## PATTERN 61 OPTICAL EFFECTS PROJECTOR, 50 amp.

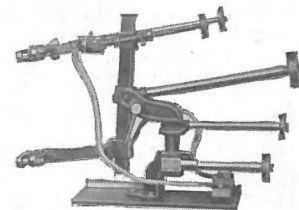


For the large stage, or where the general level of stage illumination is high, an arc lamp is essential, if satisfactory projection of optical effects is to be obtained. Although this lantern is primarily intended for use on the stage, it may be used with considerable success on front of house throws up to 100 ft., provided that provision is made for auxiliary support of the long lens tubes required. For throws over this, attention is drawn to the lanterns listed on pages 42 and 43.

### SPECIFICATION

Lantern constructed with cast aluminium front and back, sheet steel sides. Double lined and louvre ventilation top and bottom, giving efficient ventilation. Heavy fork and quadrant with 3 in. diameter locking wheels. 5 in. diameter double plano-convex condenser. Front runners to take all standard optical effects attachments, space between runner and lantern for cooling blower, which should be used with stationary scene projection slides.

Six-movement hand-feed Arc Lamp, carrying up to 50 amperes. Lamp wired in rockbestos, terminating in a pair of heavy connection terminals. Access to lamp adjustments through door at rear of lantern. Extended feed knob projects through rear door. Duplex glazed spyholes each side. Rack and pinion focussing by external knob. Indicator scale showing position of arc lamp. Finish: black crystalline enamel outside, matt black inside, nickel-plated fittings.



PRICE (exclusive of Stand)... £22 10 0

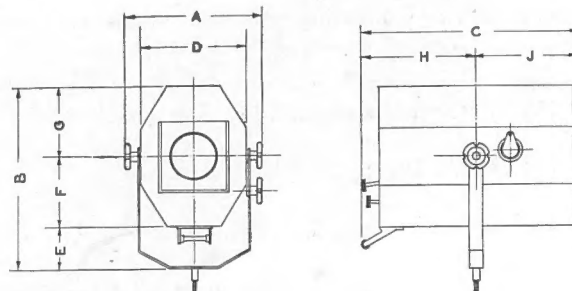
F 133 Special heavy pattern stand (maximum height 6 ft. 0 in., minimum 3 ft. 6 in.) £3 0 0 each

D.C. CARBONS (prices see page 106).

20 m/m diameter Positive. 8 m/m diameter Negative (Cored and Copper-coated). Arc Volts 52.

PATTERN 61						
		Ft.	In.		Ft.	In.
A	...	...	3	F	...	8
B	...	...	8½	G	...	8
C	...	...	10½	H	...	10
D	...	...	11½	J	...	10½
E	...	...	4½			

Nett weight: Lantern, 56 lbs. Stand, 17 lbs.



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**FLORAL**

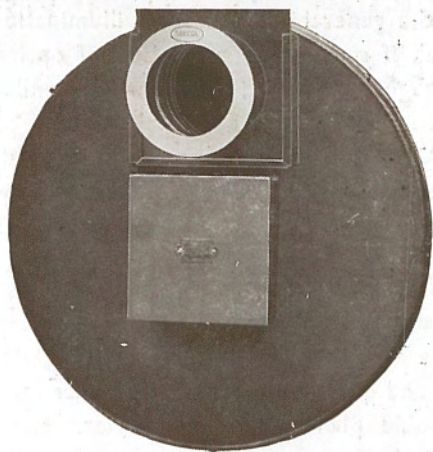
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# STRAND EFFECTS LIGHTING

## EFFECT ATTACHMENTS



Cloud Effect with Wide Angle Lens

It is not possible to list all the many effects that are available, but the principal ones will be found below. Quotations for painting of special discs or the design of special apparatus will be furnished on receipt of requirements. All effects are manufactured in the special effects workshop adjacent to the Strand Electric's demonstration theatre. Thus alterations to standard designs or construction of new effects to the customers' ideas can be carried out and demonstrated under working conditions, with the shortest possible delay.

The effects are supplied as standard, with a British-made variable speed double spring clock drive, to run from two to three hours, but an electric motor drive can be fitted at **£5 10 0** extra (complete with speed regulator) Nett.

The effects, with the exception of those marked \*, are mounted in circular aluminium cases 19½ in. diameter (approx. weight 9 lbs.), or rectangular wooden boxes, 17½ in. x 19½ in. (approx. weight, 9½ lbs.).

In either case they are fitted with turntable runners, enabling the projected effect to run in any desired plane. The front

of the cases carry runners to take mask, tinting gelatine if required, and objective lens (not included on prices below).

	£	s.	d.	
F 134 Fleecy Cloud (white clouds against black background) ... ..	12	0	0	each Nett
F 135 Storm Cloud (dark clouds against light background) ... ..	12	0	0	„ „
F 136 Rain, (F 137) Snow, (F 138) Waterfall, or (F 139) Running Water... ..	12	0	0	„ „
F 140 Smoke, (F 141) Flames, or (F 142) Sandstorm... ..	12	0	0	„ „
F 143 Rough Sea Wave, (F 144) Water Ripple, or (F 145) Aurora Borealis (rectangular wooden box) ... ..	10	15	0	„ „
F 146 Jazz Colour (stationary colours and moving glasses) ... ..	12	0	0	„ „
F 147 Dissolving Colour (moving colour wheel and ten stationary glasses) ... ..	12	0	0	„ „
F 148 Forked Lightning Effect (hand operated) (with two interchangeable copper slides) ... ..	4	10	0	„ „
F 149 *Aurora Borealis (motor driven) (revolving drum, fitted with 500 watt General Service Lamp). (Exclusive of Lamp) ... ..	9	5	0	„ „
F 150 Turntable Front and Slide Carrier (weight, 5½ lbs.) ... ..	3	0	0	„ „

## SHORT FOCUS OBJECTIVE LENSES

Short Focus. Consisting of sheet metal case with sliding brass lens jacket, fitted with securing thumbscrew, best quality British lenses, and backplate to fit standard effect attachment runner.

	£	s.	d.	
F 151 Extra wide angle, 18 ft. 6 in. circle at 10 ft. ... ..	2	6	6	each
F 152 Wide angle, 12 ft. 0 in. „ „ ... ..	2	6	6	„
F 153 Narrow angle, 9 ft. 0 in. „ „ ... ..	2	2	6	„

Approx. weight of all three sizes is 2½ lbs.



Objective Lens

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# STRAND EFFECTS

## SOUND EFFECTS

Effects are manufactured to give realistic imitation by mechanical means of the more usual noises required for stage productions. Special effects can be made up in our effects workshop to the producer's requirements. Those with electric motor drive include :—

Aeroplane, Motor Car, Motor Cycle, Wind and Sirens.

Hand drive :—

Wind, Rain, Surf and Thunder.

## AMPLIFIER SOUND SETS

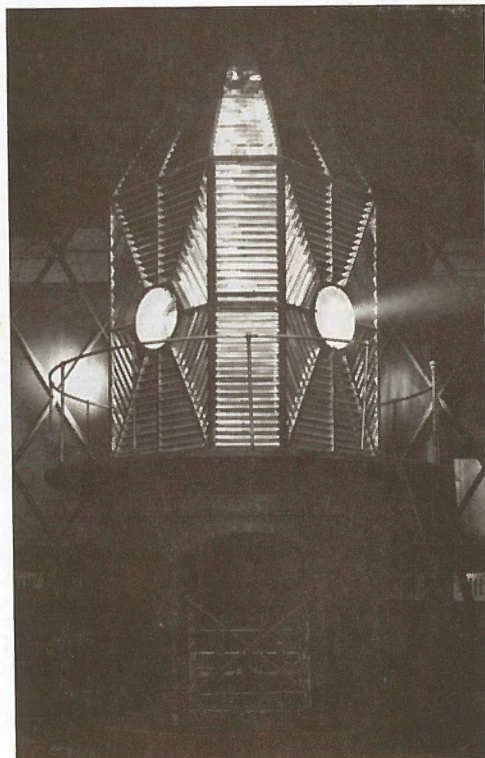
Strand Electric are in a position to quote for sale or hire for sound equipments, to reproduce gramophone records or speech.

QUOTATIONS ON RECEIPT OF FULL PARTICULARS

## ELECTRIC BLOWERS

These are self-contained units, consisting of rotary blower, coupled to a variable speed motor. They are manufactured in various sizes and are useful for flag waving, wind, and silk flame effects.

PRICE, SALE OR HIRE ON RECEIPT OF REQUIREMENTS



Strand "Prop" lantern for lighthouse scene of the "Phantom Light," at the Haymarket Theatre, London

## STRAND ELECTRIC "PROPS"

The effects department carry out considerable work in the field of electrical "props"—stage or otherwise. The property electric fires, imitation candles, etc., are well known. In conjunction with Research department a fire has been devised which really does appear to flicker and flame. There is no question of regularity of movement. The fire is just as spontaneous and inconsistent as a real coal or log fire.

Illustrated on page 95 is one of the now famous Shell Mex beacons which actually brought the fire engines out when first put into use (this really is a true story). The great possibilities of "props" is well known on the stage, but there is no doubt (as the Shell Mex beacons proved) that there are enormous possibilities for publicity and display work.

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# STRAND EFFECTS LIGHTING

## MAROONS

These are supplied ready fused for connection to the theatre supply. They should be placed in a large metal container, such as a tank or dustbin, before firing. It is inadvisable to fire more than three from the same container.

		s. d.
F 160	Small size ... ..	1 0 each Nett
F 161	Medium size ... ..	2 0 „ „
F 162	Large size (outdoor) ... ..	3 0 „ „
F 163	Blank Cartridges (for Signal Gun) (gun may be hired) ... ..	4 0 per doz. Nett

## SMOKE AND FLASH POWDER

F 164	{	Slow burning Smoke Powder (white smoke) ... ..	6 0 per lb. Nett	
F 165		Element Box for use with above (500 watt universal voltage) ... ..	...£1 12 6 each	
F 166	{	Smoke Powder with flash ... ..	6 0 per lb. Nett	
F 167		White Flash Powder ... ..	9 9 „ „	
F 168		Yellow Flash (gun-cotton) ... ..	3 0 per doz. packets Nett	
F 169		Firing Box for the above, with pair of terminals for fuse ... ..	9 0 each	
F 170	{	Smoke Puffs, self-contained, with fuse for connection to mains (small size) ... ..	1 0 each Nett	
F 171		Medium size ... ..	2 0 „ „	
F 172		Large size ... ..	3 0 „ „	
F 173	{	Red Fire	} Transformation Powder (ignition by fusee match) ...	3 0 per lb. Nett
F 174		Green Fire		
F 175	{	Lycopodium Powder ... ..	8 6 per lb. Nett	
F 176		Special Firing Container ... ..	18 6 each	
F 177		Smoke Cotton (ignition by naked flame) ... ..	2 6 per lb. Nett	
F 178		Finger Flashes (ignited with the fingers) ... ..	8 0 per doz. Nett	

*The above prices are subject to market fluctuations.*

IMPORTANT—The above cannot be sent by passenger train, post, passenger boats, or by air.

Telephone :  
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# SPECIAL APPARATUS

## PATTERN 34 SPECIAL EFFECTS FLOOD

The introduction of the new gaseous discharge lamps has led to much speculation as to their ultimate application to stage lighting. Their economical current consumption, and the fact that the light is coloured at source, and not by absorption with filters, provides a very efficient job.

However, at present the light which is emitted is very crude in colour and, furthermore, cannot be dimmed, other than by shutters in front of the lamp. Their use is, therefore, precluded for other than special effects.

Strand Electric have converted their panorama flood to take the "Osira" mercury discharge street lighting lamp.

Due to the fact that the light given out contains very little red, it has one or two useful applications in special cyclorama effects.

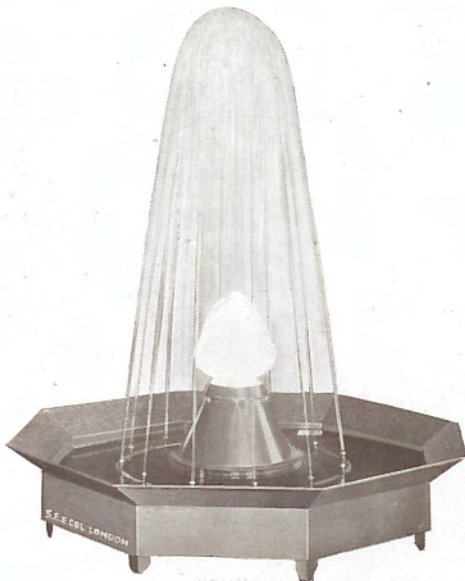
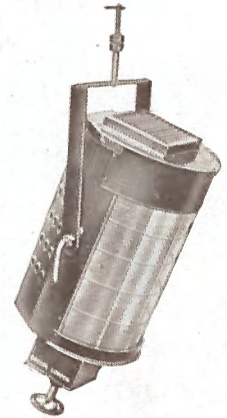
A very effective use is made of these lanterns in "Das Rheingold" at the Covent Garden Opera House. Here the characters, by dimming the ordinary stage lighting and flooding the acting area with the mercury discharge lamp, lose their colour and therefore become aged in appearance.

For Lantern, complete with metal guard and "SUNRAY" cylindrical reflector ... .. £5 5 0

For above, if fitted with ultra-violet ray filter for fluorescent effects (see page 60) ... .. £9 17 6

"Osira," 400 watt Street Lighting Lamp, for voltages from 200-250, 50 cycles ... .. See page 105

F 179 Suitable choke to be used in series with above ... £2 14 0 nett.



## ILLUMINATED FOUNTAIN

A self-contained unit, with an octagonal basin 48 in. across. No water main or waste pipe is required. Constructed of lead-coated sheet steel, and fitted with illuminated centre feature. Powerful silent running rotary pump with electric motor drive. Can be supplied for any voltage. Standard finish, dark green enamel. Special finishes to order.

Special designs of this type of fountain can be supplied to customer's requirements.

For fluorescent fountain effects see page 60.

Telephone :  
Temple Bar 7464 (6 lines).

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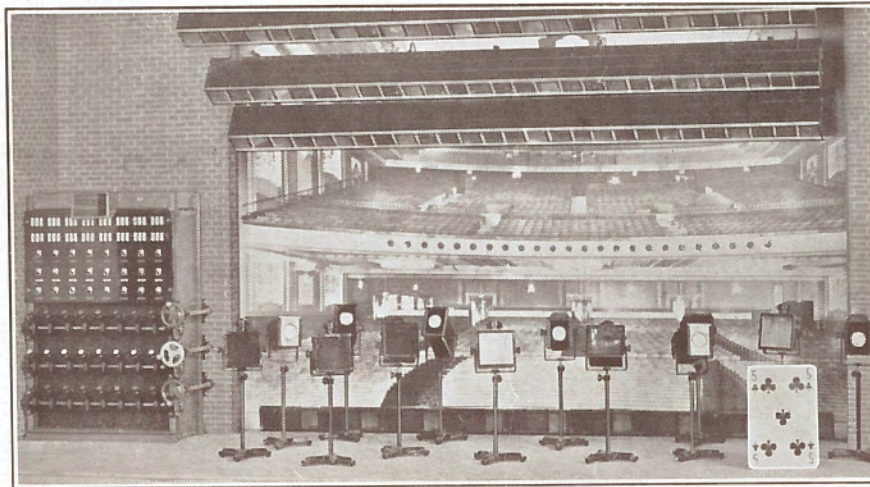
# SPECIAL APPARATUS

## MODEL THEATRE EQUIPMENT

As there is only a limited demand for lighting apparatus for model theatres, this is made to special order only. Many famous models have been equipped by Strand Electric, among which are the complete working stage model with dimmers, etc., for Lord Howard de Walden, and the Jubilee Model theatre for Mr. George Tonge, F.R.I.B.A., at the Building Centre, New Bond Street, during the latter half of 1935, and which subsequently toured the country in aid of theatrical charities.

Model stage lighting has been made up to various scales for scenic designers and producers to enable them to try out their lighting effects in advance.

Listed below is some of the apparatus made up for the Jubilee Model theatre, samples of which are on view in the showroom. Each unit is an exact model of the standard apparatus to a scale of 1 in. = 1 ft. 0 in.



*"Jubilee" Model Theatre Apparatus with standard playing card*

						PRICES	
						s.	d.
F 180	Miniature pattern 49 wing flood, on stand	...	...	...	...	16	6 each Nett
F 181	" " 43 focus lamp, "	...	...	...	...	15	6 " "
F 182	Three- or four-colour footlight, compartments at 7/8 in. centres	...			...	3	0 per compartment Nett
F 184	Three- or four-colour batten, compartments at 7/8 in. centres	...			...	3	0 " "
LAMPS.	3.5 volt, .3 amp. spotlight lamps	...	...	...	...	0	3 each Nett
	6.0 volt, .3 amp. " "	...	...	...	...	0	4 " "
	Medical lamps, 3.5 volt, complete with 2 ft. miniature flex and M.E.S. adaptor					1	0
	20 watt 100 or 200/240 volt, 2 x 1 in. lamps, S.B.C.	...	...	...	...	3	0 E.L.M.A.

*Transformers of any output supplied to customers' requirements.*

Telephone :  
Temple Bar 7464 (6 lines).

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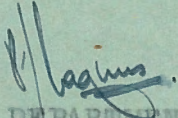
# THE STRAND ELECTRIC & ENGINEERING CO., LTD.

DEPARTMENTAL MEMO.

To..... Mr. Martin - Stage Furnishings. Date..... 10th July, 1946.  
From Mr. Magnus - S.ST. Head Office. Subject 10amp. 2-pin Pol. Brass  
Flush Sockets with Bakelite  
Plugtops.

We recently had the opportunity of purchasing 109 Dozen - 10amp. 2-pin Flush Sockets complete with Plugtops at a competitive price of 48/- dozen nett as against the normal price operating today of 60/- dozen nett.

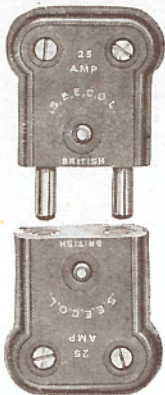
If you have any call for these and would like a quantity for stock will you kindly advise me, alternatively please keep this in mind for future requirements.

  
MANAGER. SALES DEPARTMENT (STORES SECTION).





# STRAND PLUGS AND SOCKETS



Connector Type

## CONNECTOR TYPE

Made in moulded "Kalenite," with threaded outlet cord grip.

- G 194 5 amp. size, male and female ... ..
- G 195 10 amp. size, male and female, with earth connection
- G 196 10 amp. size, male and female, with buckle clips ...

PRICE

- 5s. 0d. per pair
- 6s. 0d. ..
- 7s. 0d. ..

## DOMINO TYPE

Miniature plugs for connecting up stage prop. fittings.

- G 197 3 amp. size ... ..
- G 198 5 amp. size ... ..

PRICE

- 2s. 0d. per pair
- 2s. 6d. ..

## TWO-PIN TYPE

30 amp. plugs, of hard wood with fibre base and substantial brass pins.

- G 199 Male, female, or differential ... ..

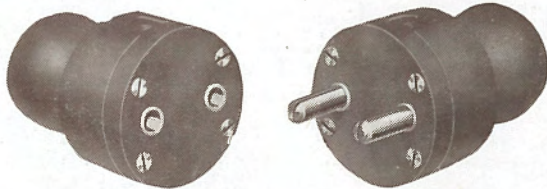
PRICE

3s. 9d. each

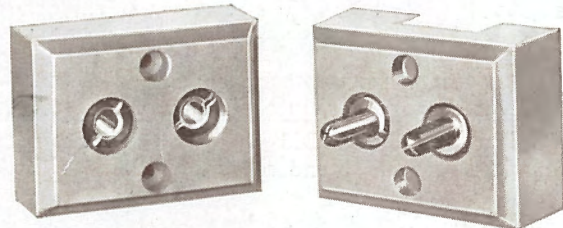
30 amp. sockets, consisting of solid china bases with heavy brass terminals.

- G 200 Male, female or differential... ..

3s. 9d. ..



Two-pin Type

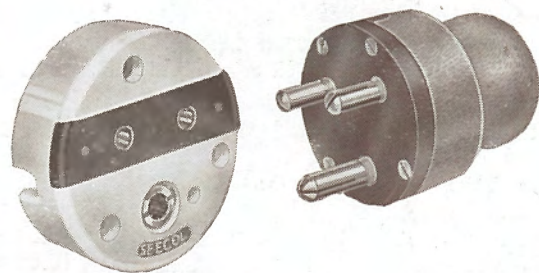


Two-pin Type

## THREE-PIN TYPE

Plug top of hard wood with fibre base. Sockets of white porcelain with black fibre strip. Substantial brass pins. "Earth" pin extra large with visible connection.

- |       |                           | PRICE        |
|-------|---------------------------|--------------|
| G 201 | 15 amp. plug, male ...    | 4s. 6d. each |
| G 202 | 15 amp. socket, female... | 4s. 6d. ..   |
| G 203 | 30 amp. plug, male ...    | 6s. 0d. ..   |
| G 204 | 30 amp. socket, female... | 6s. 0d. ..   |



Three-pin Type

Telephone :  
Temple Bar 7464 (6 lines).

**STRAND ELECTRIC  
AND ENGINEERING CO., LTD.**  
**FLORAL STREET, COVENT GARDEN, W.C.2**

Telegraphic Address :  
Spotlite, Rand, London.

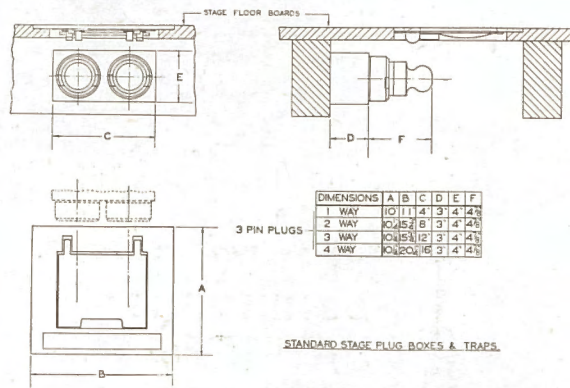


# STRAND DIP BOXES

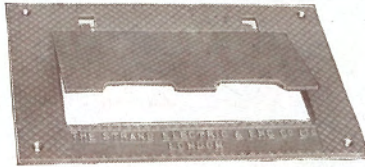
Strand 3-pin 30 amp. sockets are the recognised standard for dip boxes all over the country. Care should be taken by electrical contractors to use only this type when carrying out a stage installation. This will ensure that no difficulties will be experienced by touring companies fitting up their own equipment in a particular theatre.

Plug boxes consist of 30 amp. china sockets (see page 65) mounted on an undrilled sheet steel box.

		PRICE	£	s.	d.
G 186	... 1-way with plug and socket		1	2	6
G 187	... 2-way	" "	1	7	6
G 188	... 3-way	" "	2	12	6
G 189	... 4-way	" "	3	7	6



## STAGE TRAPS



Malleable iron chequered casting, made to allow access to 3-pin plugs mounted as shown in diagram.

		£	s.	d.
G 190	1-way ...	1	0	0
G 191	2-way ...	1	5	0
G 192	3-way ...	1	5	0
G 193	4-way ...	1	12	0

## STAGE (CARGO) FLEX (Manufactured by a Member of the C.M.A.)

### SPECIFICATION

Plain copper wires, cotton lapped, insulated with two coats of vulcanized indiarubber, taped, cores twisted together, jute filled, jute braided, and compounded overall.

Present Standard	Old Standard	Amperes as I.E.E. Regulations	Twin per 100 yds. £ s. d.	Three-core per 100 yds. £ s. d.
40/.0076	... 40/36	... 5.0	... 3 2 6	... 4 12 0
70/.0076	... 70/36	... 10.0	... 4 0 0	... 5 12 6
110/.0076	... 110/36	... 15.0	... 5 2 6	... 7 2 6
162/.0076	... 162/36	... 20.0	... 8 2 0	... 9 14 6
140/.010	... 140/33	... 25.0	... 20 10 0	... 29 1 0
195/.010	... 195/33	... 30.0	... 26 11 0	... 38 1 0

## "WORKSHOP" FLEX (Manufactured by a Member of the C.M.A.)

### SPECIFICATION

Plain copper wires, cotton lapped, insulated with two coats of vulcanized indiarubber, conductor twisted together, made circular, braided and compounded overall.

Present Standard	Old Standard	Amperes as I.E.E. Regulations	Twin per 100 yds. £ s. d.	Three-core per 100 yds. £ s. d.
14/.0076	... 14/36	... 2.0	... 1 2 6	... 1 17 0
23/.0076	... 23/36	... 3.0	... 1 7 6	... 2 4 6
40/.0076	... 40/36	... 5.0	... 1 16 6	... 2 18 6
70/.0076	... 70/36	... 10.0	... 2 12 6	... 4 1 0
110/.0076	... 110/36	... 15.0	... 3 11 6	... 5 17 0

Subject to Market Fluctuations

**STRAND ELECTRIC AND ENGINEERING CO., LTD.**

**FLORAL STREET, COVENT GARDEN, W.C.2**

Telephone : Temple Bar 7464 (6 lines).

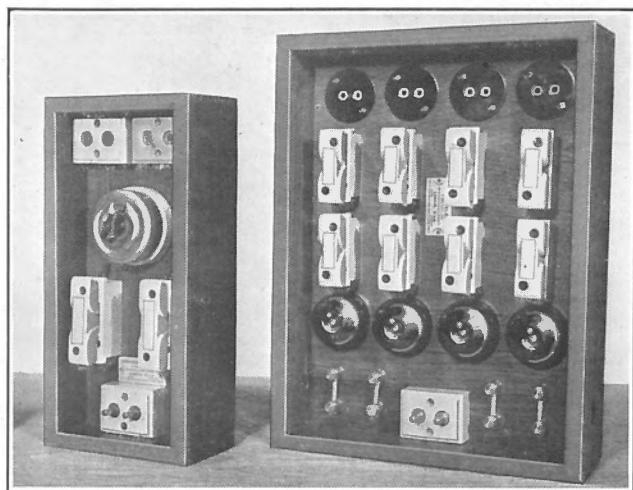
Telegraphic Address : Spotlite, Rand, London.



# STRAND PLUGS AND SOCKETS

## PLUG BOARDS

Constructed of teak, they are made to withstand the hard usage customary on the stage. Below are listed a few standard types, but they can be made up to suit individual requirements.



G 210

G 206

G 205 4-way Stage Shoe

(3-30 amp. 2-pin female plugs, paralleled to one 30 amp. male feed)

PRICE ... £1 3 6 Nett

Plug, switch, and fuse boards, with 30 amp. main plug, and 10 amp. plugs to each way. 15 ampere quick break switches, Home Office pattern fuses, and protected series terminals for dimmers if required.

											PRICE				
											£	s.	d.		
G 206	4-way, 2-pin	...	...	...	...	...	...	...	...	...	...	4	10	0	Nett
G 207	6-way, 2-pin	...	...	...	...	...	...	...	...	...	...	6	15	0	„
G 208	4-way, 3-pin	...	...	...	...	...	...	...	...	...	...	5	5	0	„
G 209	6-way, 3-pin	...	...	...	...	...	...	...	...	...	...	7	17	6	„

## ARC BOARDS

With 30 amp. rotary quick break switch, male 30 amp. socket for incoming main. Female 30 amp. for outgoing main. Series terminals or socket for resistances. 30 amp. Home Office fuses.

											PRICE				
											£	s.	d.		
G 210	1-way	...	...	...	...	...	...	...	...	...	...	2	15	0	Nett
G 211	2-way	...	...	...	...	...	...	...	...	...	...	5	7	6	„
G 212	4-way	...	...	...	...	...	...	...	...	...	...	10	3	6	„

**STRAND ELECTRIC**  
AND ENGINEERING CO., LTD.

Telephone :  
Temple Bar 7464 (6 lines).

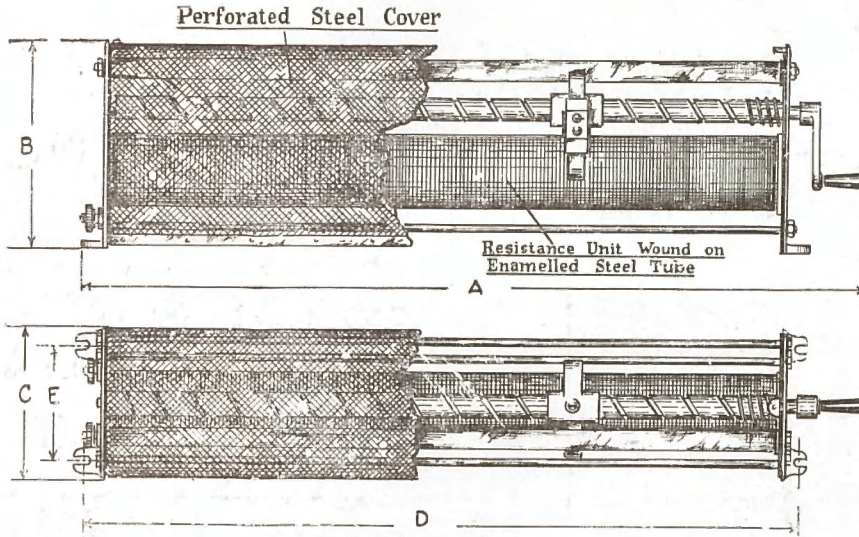
Telegraphic Address :  
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**FLORAL STREET, COVENT GARDEN, W.C.2**



## STRAND DIMMERS

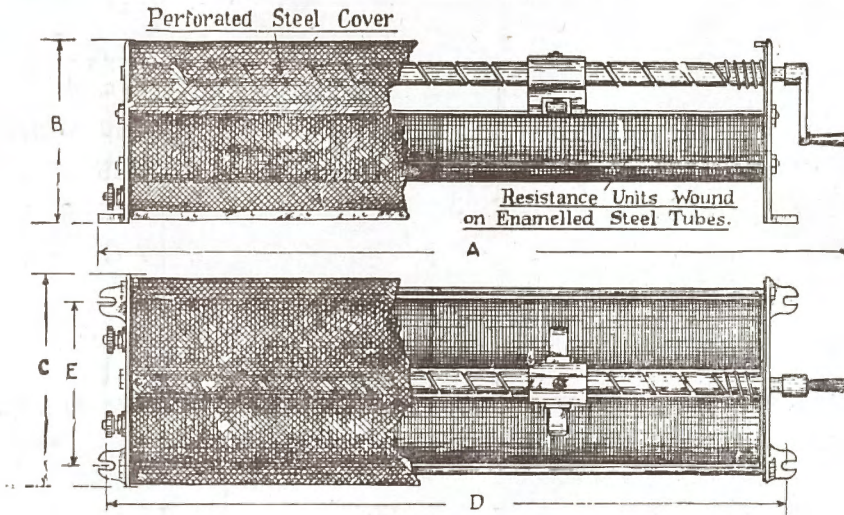
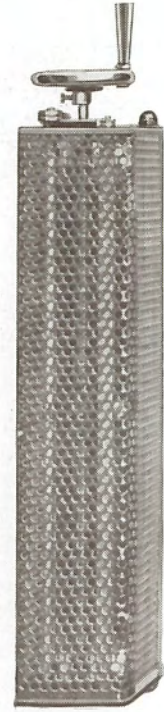
DIMENSIONS TYPE T1 and T2



TYPE - T.1.

"SEECOL" WORM DRIVEN TUBULAR DIMMER							
Length of Tube	Overall Dimensions			Fixing Centres		Maximum Loading	Weight
	A	B	C	D	E		
15"	20"	6"	4"	16 <sup>3</sup> / <sub>4</sub> "	3 <sup>1</sup> / <sub>16</sub> "	1000Watts	11 lbs
18"	23"	6"	4"	19 <sup>3</sup> / <sub>4</sub> "	3 <sup>1</sup> / <sub>16</sub> "	1250 "	11 <sup>1</sup> / <sub>2</sub> "
21"	26"	6"	4"	22 <sup>3</sup> / <sub>4</sub> "	3 <sup>1</sup> / <sub>16</sub> "	1500 "	12 "

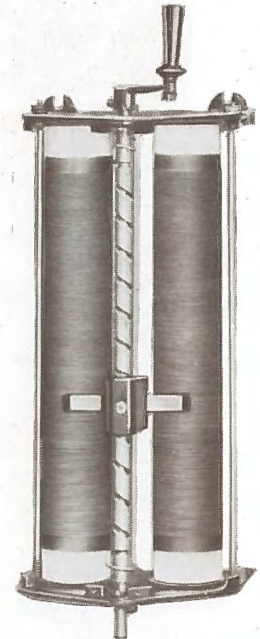
Handwheel or Crank-handle Fitted as Desired



TYPE - T.2.

"SEECOL" WORM DRIVEN TUBULAR DIMMER							
Length of Tubes	Overall Dimensions			Fixing Centres		Maximum Loading	Weight
	A	B	C	D	E		
15"	20"	6 <sup>3</sup> / <sub>4</sub> "	7 <sup>3</sup> / <sub>4</sub> "	16 <sup>1</sup> / <sub>4</sub> "	6"	2000Watts	16 lbs
18"	23"	6 <sup>3</sup> / <sub>4</sub> "	7 <sup>3</sup> / <sub>4</sub> "	19 <sup>1</sup> / <sub>4</sub> "	6"	2500 "	17 <sup>1</sup> / <sub>2</sub> "
21"	26"	6 <sup>3</sup> / <sub>4</sub> "	7 <sup>3</sup> / <sub>4</sub> "	22 <sup>1</sup> / <sub>4</sub> "	6"	3000 "	19 "

Handwheel or Crank-handle Fitted as Desired



Telephone :  
Temple Bar 7464 (6 lines).

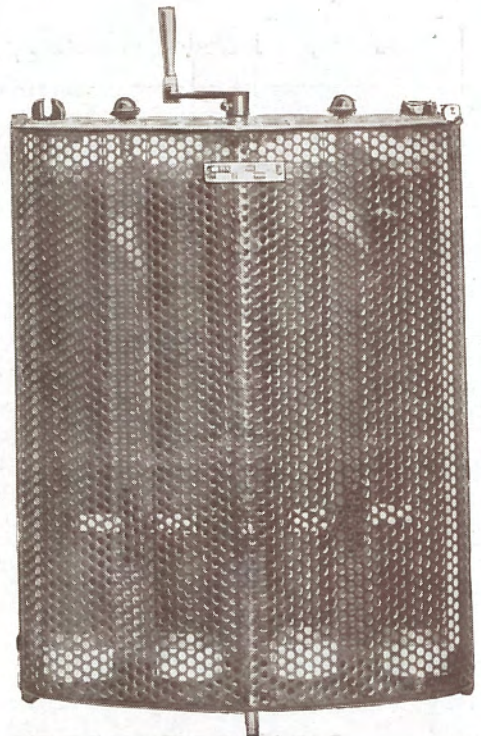
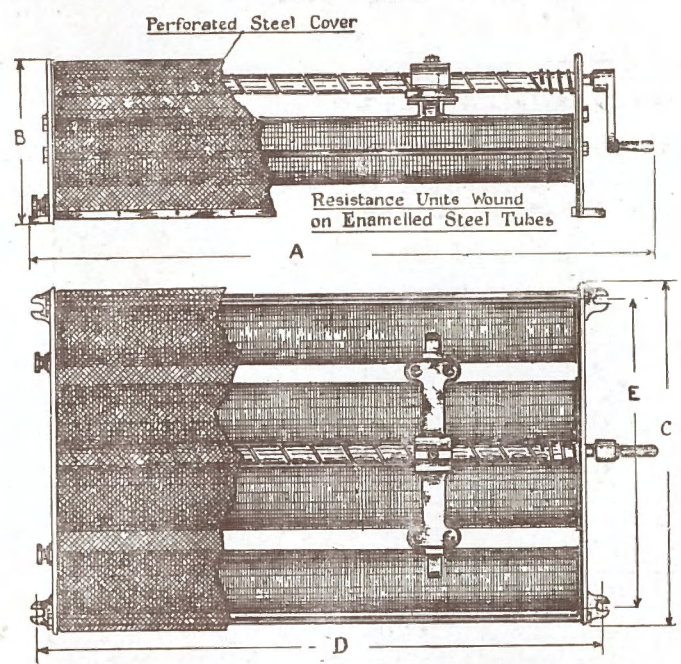
**STRAND ELECTRIC**  
**AND ENGINEERING CO., LTD.**  
**FLORAL STREET, COVENT GARDEN, W.C.2**

Telegraphic Address :  
Spoclitc, Rand, London.



# STRAND DIMMERS

## DIMENSIONS TYPE T 4.



Tubular Dimmer

WORM DRIVEN TUBULAR DIMMERS								
Length of Tubes	Overall Dimensions			Fixing Centres		Maximum Loading	Weight	
	A	B	C	D	E			
15"	20"	8"	15 1/4"	16 1/2"	12 3/4"	4000 Watts	27 lbs	
18"	23"	8"	15 1/4"	19 1/2"	12 3/4"	5000 "	29 "	
21"	26"	8"	15 1/4"	22 1/2"	12 3/4"	6000 "	31 "	

## STRAND TUBULAR DIMMERS (Illustrated on preceding page and above)

These dimmers comprise GRADUATED windings of nickel copper resistance wire on vitreous enamelled tubes, mounted between cast-iron end-plates with compressed micanite or bakelite insulation. The windings are carefully calculated to ensure an EVEN FLICKERLESS VARIATION FROM "FULL ON" TO "BLACK-OUT." The brushes are of laminated phosphor bronze, mounted on cast-iron carriages which can be arranged for operation by the following methods:—

WORM DRIVEN BY HANDWHEEL.				SLIDING—HAND OPERATED				
A "QUICK BREAK" can be fitted to any of the above types. Terminals can be fitted for back or external connection.								
Watts	Type	PRICE	Watts	Type	PRICE	Watts	Type	PRICE
1000	TI 15"	£5 12 6	2000	T2 15"	£6 5 0	4000	T4 15" ...	£11 5 0
1250	TI 18"	£5 16 6	2500	T2 18"	£6 17 6	5000	T4 18" ...	£13 2 6
1500	TI 21"	£6 0 0	3000	T2 21"	£7 10 0	6000	T4 21" ...	£15 0 0

## STRAND SLATE TYPE SLIDER DIMMERS (Illustrated on following page)

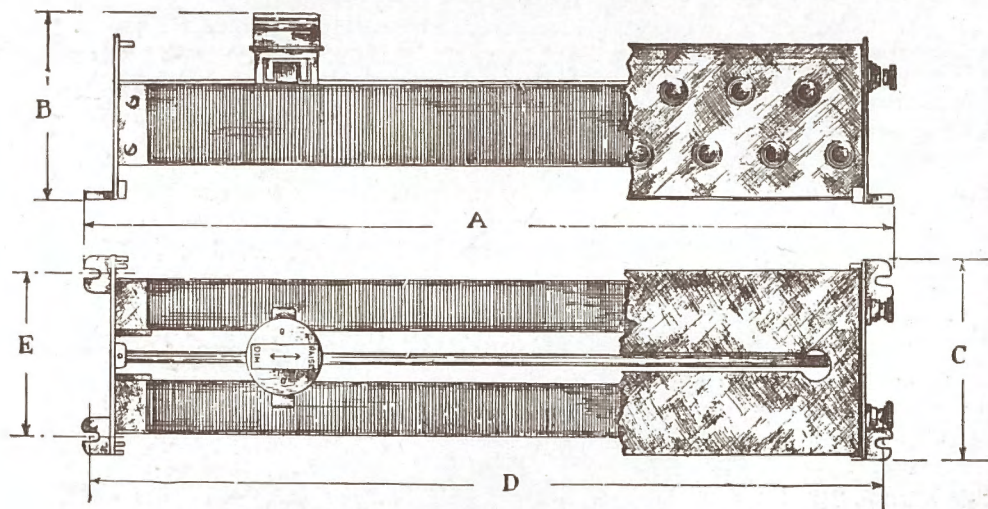
These dimmers, which are wound and insulated in a similar manner to the tubular type, have several improved features, the chief being the provision of a "Quick Break" to off position. The spacing between windings and cover has been considerably increased, and the new pattern spring loaded floating brush, whilst sliding freely, makes it impossible to accidentally break circuit. Dimmers can be wound for universal voltage and fitted with plug as illustrated at 7s. 6d. extra.

Watts	Type	PRICE	Watts	Type	PRICE	Watts	Type	PRICE
60	SS 12"	£1 12 6	800	LS 15"	£2 4 0	1600	2LS 15"	£4 14 0
100		£1 12 6	900		£2 4 0	1800		£4 14 0
200		£1 12 6	1000	LS 18"	£2 6 6	2000	2LS 18"	£5 0 0
300	SS 15"	£2 0 0	1250	LS 21"	£2 9 0	2500	2LS 21"	£5 5 0
400		£2 0 0	1500		£2 9 0	3000		£5 5 0
500		£2 0 0						
600	SS 18"	£2 1 6						
700		£2 1 6						



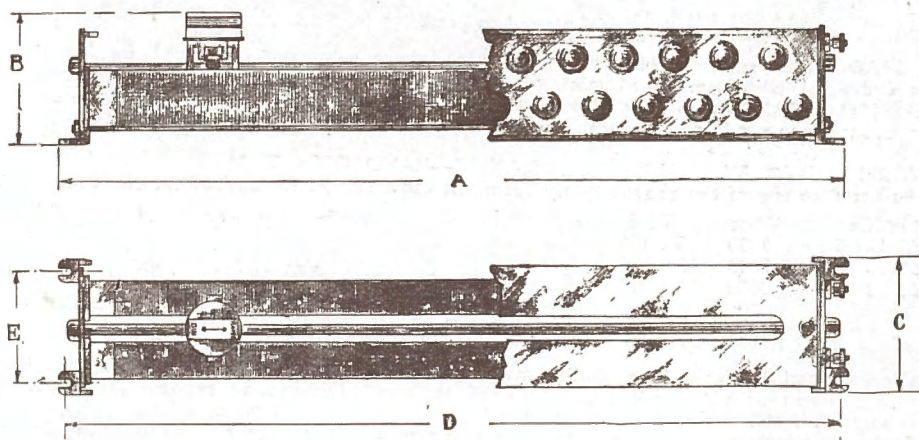
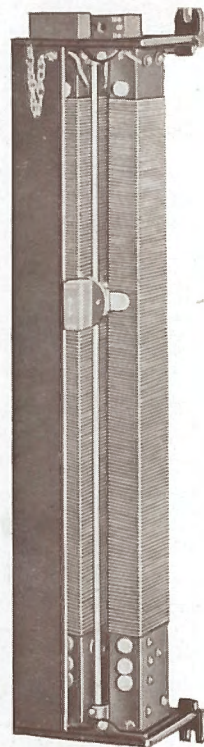
# STRAND DIMMERS

## DIMENSIONS TYPE L.S. and S.S.



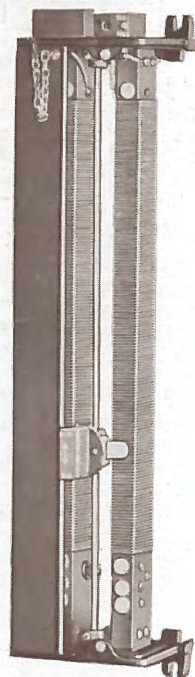
TYPE L.S.

Length of Slates	Overall Dimensions					Maximum Loading	Weight
	A	B	C	D	E		
L.S. 15"	17 1/4"	4 7/8"	5 1/8"	16 3/4"	4"	800/900 Watts	13 lbs
L.S. 18"	20 1/4"	4 7/8"	5 1/8"	19 3/4"	4"	1000/1050 "	14 "
L.S. 21"	23 1/4"	4 7/8"	5 1/8"	22 3/4"	4"	1100/1500 "	15 "
2 L.S. 15"	16 7/8"	5"	10 1/2"	16 1/8"	9 3/4"	1600/1800 "	26 "
2 L.S. 18"	19 7/8"	5"	10 1/2"	19 1/8"	9 3/4"	2000 "	28 "
2 L.S. 21"	22 7/8"	5"	10 1/2"	22 1/8"	9 3/4"	2500/3000 "	30 "



TYPE S.S.

Length of Slates	Overall Dimensions					Maximum Loading	Weight
	A	B	C	D	E		
S.S. 12"	14 1/8"	4"	4 3/4"	13 1/2"	3 3/4"	200 Watts	7 lbs
S.S. 15"	17 1/8"	4"	4 3/4"	16 1/2"	3 3/4"	300/500 "	8 "
S.S. 18"	20 1/8"	4"	4 3/4"	19 1/2"	3 3/4"	600/700 "	9 "



Telephone :  
Temple Bar 7464 (6 lines).

**STRAND ELECTRIC**  
AND ENGINEERING CO., LTD.  
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :  
Spotlite, Rand, London.



# STRAND PLATE DIMMERS

In the design of these Dimmers the utmost care has been taken to provide for all the essential requirements of the Modern Theatre and Cinema, with special attention to the following points:—

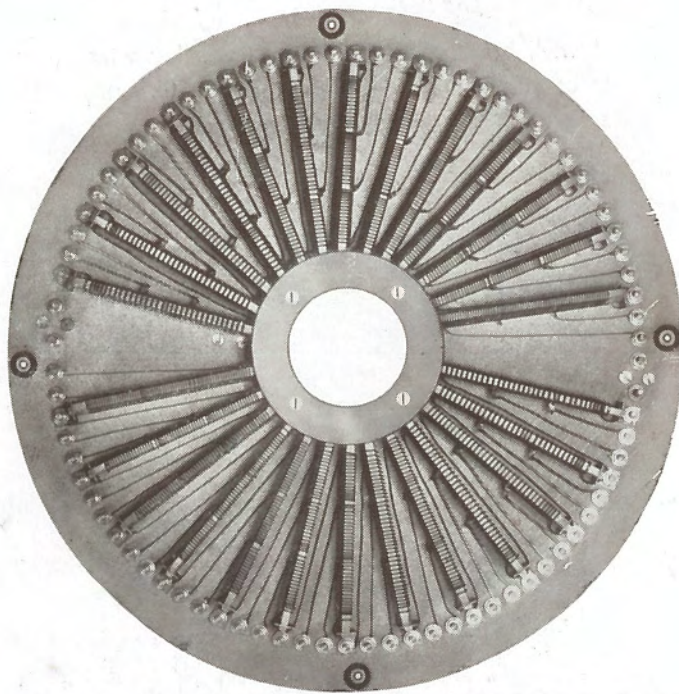
## “FLICKERLESS” DIMMING

The provision of a large number of Contacts is not in itself sufficient to ensure this prime necessity, and we have therefore not only provided an ample number of Steps but have carefully calculated and graded them so that each Contact bears the best possible relationship to those adjacent to it.

## EASE OF OPERATION

The various Sections of the Resistance are connected to heavy Brass Studs, contact with which is made by a Double-ended Switch-arm fitted with Spring Loaded Anti-Friction Carbon Brushes at its extremities, thus ensuring smooth working, efficient contact and durability.

## INTERIOR ASSEMBLY



*This illustration of panel removed from case shows the ease with which resistance units can be changed to suit an altered load.*

*By removing central securing ring and loosening connections to contact studs any element can be withdrawn.*

16" dia. plate maximum load, 2,500 watts.

19" dia plate maximum load, 5,000 watts.

## INSULATION

Special attention has been given to this in view of the fact that many Plate Dimmers are deficient in this quality, especially when new and when installed in damp situations. By the provision of Bakelite or Mica Inserts and suitable Air-gaps, between the "Sindanyo" Panel which carries all live metal and the Framework, leakage caused by surface dampness or otherwise has been guarded against to the utmost extent.

## RATING

The windings are liberal and the Dimmers may be left in circuit for many hours without fear of breakdown. The enclosing castings are of aluminium, which is most suitable for even dissipation of heat.

## ADAPTABILITY

The Dimmers can be fitted in almost any conceivable position for operation, through Wall, Floor or Ceiling and can be banked in tiers with any desired arrangement of individual and master control.

## DESIGN

In this respect the aim has been to provide a sturdy piece of apparatus capable of satisfactorily standing up to all reasonable requirements. At the same time all parts, including the Resistance Elements, are standardised and can be replaced speedily and with ease by the Resident Electrician at any Theatre or Cinema.

PRICES ON RECEIPT OF FULL PARTICULARS

**STRAND ELECTRIC  
AND ENGINEERING CO., LTD.**

**FLORAL STREET, COVENT GARDEN, W.C.2**

Telephone :  
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Telegraphic Address :  
Spotlite, Rand, London.



# STRAND DIMMERS

## "SUNSET" DIMMERS, TYPES A, AI and B (Element Pattern)

These dimmers employ the element principle used on the "STRAND" plate dimmers, but are made up in a rectangular form without the aluminium casing. This, while retaining the majority of the advantages of the plate type, effects considerable reduction in cost of construction. This unit is altogether superior electrically and mechanically to the "open coil" type usually used. The "Sunset" element dimmer is fitted as standard to the switchboards illustrated on the following pages.

**FRAME.**—Wrought iron, suitably arranged for switchboard mounting, for removal from either back or front of board. Also suitable for banking for motor drive.

**PANELS.**—Natural grade "Sindanyo" of ample size to prevent warping.

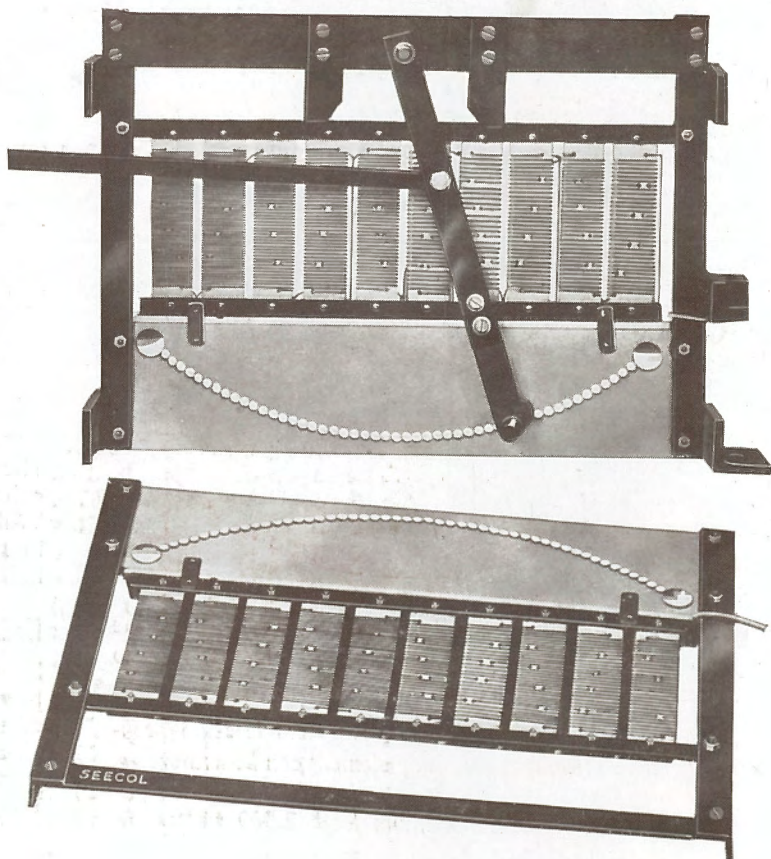
**TERMINALS AND STUDS.**—Brass studs throughout of ample size, fitted with special collets for connecting elements.

**ELEMENTS.**—Natural grade "Sindanyo" wound with best quality nickel-copper alloy wire. Wire is non-corrosive, and is unaffected by atmospheric conditions, and also has a negligible temperature coefficient.

**BRUSH.**—Anti-friction carbon of ample section to carry current required without voltage drop.

**INSULATION.**—Panels, Elements, Brush, and other live parts are insulated from frame with bakelite bushings and washers. All insulation is impregnated with bakelite varnish to prevent damp creeping in at these points. The insulation resistance of an individual dimmer is not less than 20 megohms, measured with a 500 volt testing set.

**GENERAL.**—All dimmers have a definite "off" position. Dimmers are made with 80 or 100 steps of resistance, and windings are graded to give flickerless dimming from "full on" to "off" when used with a load of its rated capacity. Dimmers for dip plugs can be arranged to give a load variation of + or - 33½ per cent.



*Sunset Element Type Dimmer  
dismantled showing brush arm and contacts*

Telephone :  
Temple Bar 7464 (6 lines).

**STRAND ELECTRIC  
AND ENGINEERING CO., LTD.**  
**FLORAL STREET, COVENT GARDEN, W.C.2**

Telegraphic Address :  
Spotlite, Rand, London.



# STRAND DIMMERS

## “SUNSET” DIMMERS, TYPE D (Coil Pattern)

This is a cheaper form of dimmer than the element type, and is designed for use where price is an important consideration. Though wherever possible use of the element type is recommended, these dimmers are a thoroughly reliable and robust job, equal—if not superior—to any of their type on the market.

**FRAME.**—Wrought iron, suitably arranged for switchboard mounting, for removal from either back or front of board. Also suitable for banking for motor drive.

**PANELS.**—Top panels of natural grade “Sindanyo,” of ample size to prevent warping. Main panels of best selected slate free from metallic veins.

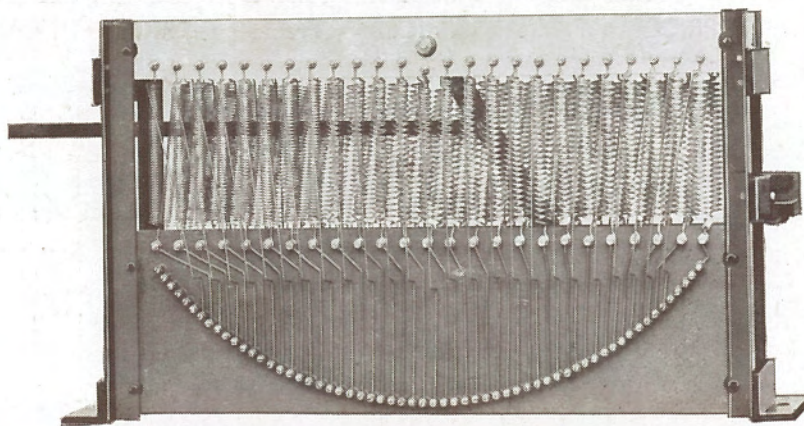
**TERMINALS AND STUDS.**—Brass studs, screws, etc., used throughout. Studs of ample size, fitted with special collets for connecting coils. Resistance coils are secured with brass screws and nuts, with washers on each side of loop to ensure good contact.

**RESISTANCE COILS.**—All nickel-copper alloy wire, non-corrosive, unaffected by atmospheric conditions, and with a negligible temperature co-efficient.

**BRUSH.**—Anti-friction carbon of ample section, to carry current required without voltage drop.

**INSULATION.**—Panels, coils, brush, and other live parts are insulated from frame with bakelite bushings and washers. All insulation is impregnated with bakelite varnish to prevent damp creeping in at these points. The insulation resistance of an individual dimmer is not less than 20 megohms, measured with a 500 volt testing set.

**GENERAL.**—All dimmers have a definite “off” position. Dimmers are made with 100 steps of resistance, and windings are graded to give flickerless dimming from “full on” to “off” when used with a load of its rated capacity. Dimmers for dip plugs can be arranged to give a load variation of + or — 33 $\frac{1}{3}$  per cent.



Sunset Coil Dimmer Complete

Telephone :  
Temple Bar 7464 (6 lines).

**STRAND ELECTRIC**  
**AND ENGINEERING CO., LTD.**  
**FLORAL STREET, COVENT GARDEN, W.C.2**

Telegraphic Address :  
Spotlite, Rand, London.



# STRAND DIMMERS

## WALL MOUNTING "SUNSET" TYPES F, G, H, & J

This is a self-contained dimmer unit suitable for use on decorative lighting in lecture halls, churches etc., or for master dimming on small stages.

**FRAME.**—Wrought iron, wall mounting, with perforated iron guard.

**PANELS.**—Best selected slates free from metallic veins.

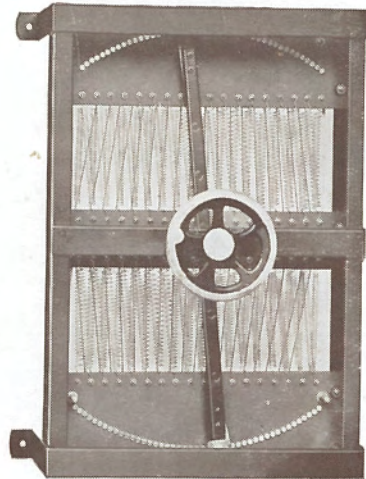
**TERMINALS AND STUDS.**—Brass studs, screws, etc., used throughout. Studs of ample size fitted with special collets for connecting coils. Resistance coils are secured with brass screws and nuts, with washers on each side of loop to ensure good contact.

**RESISTANCE COILS.**—All nickel-copper alloy wire, non-corrosive, unaffected by atmospheric conditions, and with a negligible temperature co-efficient.

**BRUSH.**—Anti-friction carbon of ample section to carry current required without voltage drop.

**INSULATION.**—Panels, coils, brush, and other live parts are insulated from frame with bakelite bushings and washers. All insulation is impregnated with bakelite varnish to prevent damp creeping in at these points. The insulation resistance of an individual dimmer is not less than 20 megohms, measured with a 500 volt testing set.

**GENERAL.**—All dimmers have a definite "off" position. Type F and G dimmers are made with 70 steps of resistance, and Type H and J with 100 steps of resistance. Windings are graded to give flickerless dimming from "full on" to "off" when used with a load of its rated capacity.



Wall mounting Sunset Dimmer  
with guard removed

Watts	100/110 VOLTS				200/250 VOLTS			
	70 Contacts		100 Contacts		70 Contacts		100 Contacts	
	Frame	PRICE £ s. d.	Frame	PRICE £ s. d.	Frame	PRICE £ s. d.	Frame	PRICE £ s. d.
1000	F	8 0 0	G	9 10 0	F	8 0 0	G	9 10 0
1500	F	8 5 0	G	9 15 0	F	8 2 6	G	9 12 6
2000	F	8 10 0	G	10 0 0	F	8 5 0	G	9 15 0
2500	F	9 10 0	G	10 5 0	F	8 7 6	G	9 17 6
3000	F	9 15 0	G	11 5 0	F	8 10 0	G	10 0 0
3500	F	10 0 0	G	11 10 0	F	8 12 6	G	10 2 6
4000	F	10 5 0	G	11 15 0	F	8 15 0	G	10 5 0
4500	H	14 0 0	G	12 0 0	H	13 5 0	G	10 7 6
5000	H	14 10 0	G	12 5 0	H	13 7 6	G	10 10 0
6000	H	15 10 0	J	17 10 0	H	13 12 6	J	16 2 6
7000	H	16 10 0	J	18 10 0	H	13 17 6	J	16 12 6
8000	H	17 10 0	J	19 10 0	H	14 2 6	J	17 2 6
9000	Not Made		J	20 10 0	H	14 7 6	J	17 12 6
10000	"		J	21 10 0	H	14 12 6	J	18 2 6

THE ABOVE PRICES ARE INCREASED BY 10%

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Spotlite, Rand, London.

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# STRAND DIMMERS

## LIQUID DIMMERS (Useful for special dips and other widely varying loads)



Glazed earthenware jars, complete with fixed and moving lead cones. Provided with insulators to which the tracker wire is attached, and terminals for leads.

	£	s.	d.
PRICE (for loads up to 40 amps.) as illustration ... ..	3	14	6 each
Ditto, complete, mounted in framework with operating handle at top ... ..	7	5	0 „
Special "salts" for use in dimmer ... ..	0	2	6 per lb.
Tracker wire, $\frac{1}{16}$ in. diameter ... ..	0	16	6 per 100 ft.

## REACTANCE DIMMERS

The much talked of installations of dimmers in the U.S.A., operating on reactance principles, and employing voltage control in the form of a variable choke or thyatron valve, has led to much discussion in this country.

Strand Electric engineers have examined the various types available here, and have discussed the matter with their representatives in New York. They have come to the conclusion that at present the initial cost of this form of dimming and the subsequent maintenance is far too heavy to justify general installation.

However, Strand Electric can supply a unit for use on dip circuits or with flexible plugging boards, where one dimmer may have to suffice for several circuits of different wattages.

Meanwhile, experiments are being carried out from which Strand Electric confidently expect great results, although it will be several years yet before the wire dimmer is relegated to the position now occupied by the liquid dimmer.

PRICES ON APPLICATION

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# STRAND CONTROL

## PORTABLE TEAK DIMMER BOARD

Wired complete with 15 ampere Home Office pattern fuses, wood protecting cover. Bus bars with large main terminals and dividing fillet. 15 ampere quick break tumbler switches. 15 ampere flush two-pin sockets. Up to twelve universal voltage dimmers of any wattage from 100 to 1000. Pilot light switch and fuse. All internal wiring covered in with sheet metal back.

PRICE (6-way, 1000 watt) ... .. £ s. d.  
24 0 0 Nett

Size : 3 ft. 3 in. 3 ft. 3 in. 9 in.

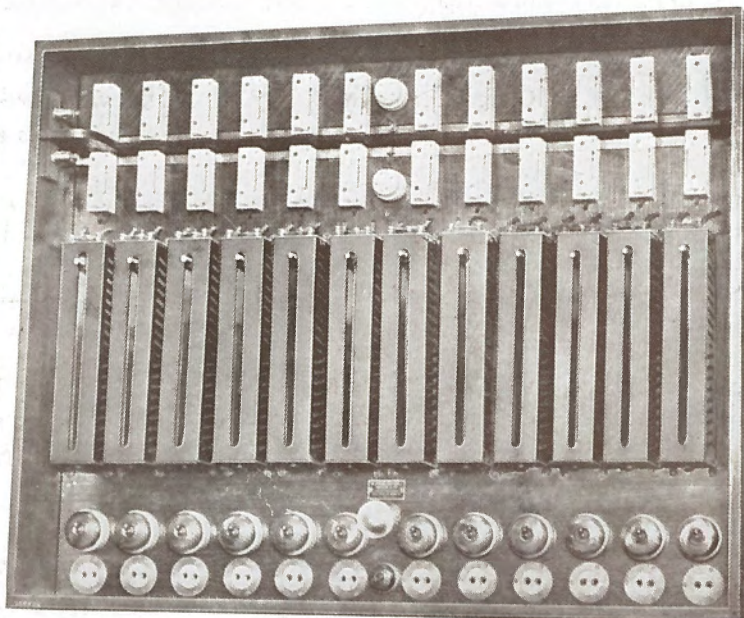
Nett weight, 1½ cwt. (approx.).

PRICE (12-way, 1000 watt) ... .. £ s. d.  
48 0 0 Nett

Size : 6 ft. 6 in. 3 ft. 3 in. 9 in.

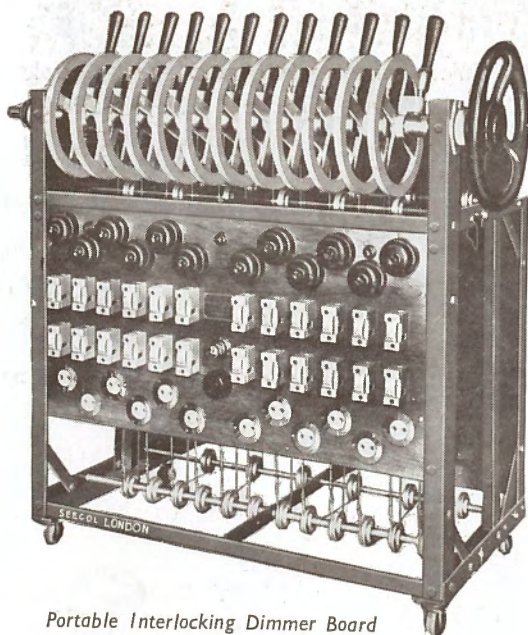
Nett weight, 3 cwt. (approx.).

Prices for other sizes and wattages on application



## PORTABLE INTERLOCKING DIMMER BOARD

Designed to include the advantages of individual and collective control on a portable board, while keeping the weight down to a minimum.



Portable Interlocking Dimmer Board

### SPECIFICATION

Light angle iron frame, mounted on castors. Complete with 15 ampere Home Office pattern "Slidelock" fuses. 15 ampere quick break bakelite switches. 15 ampere flush two-pin plug sockets. Universal voltage, 1000 watt slider dimmers, operated by tracker wires from levers mounted on top of switch panels. Levers can be screwed down to shaft for master operation by wheel at the end of the shaft. Lever travel fitted with scale showing position of check. Pilot light. Interconnection in rock-bestos. Heavy pattern quick connection terminals for mains.

PRICE (6-way, 1000 watt) ... .. £ s. d.  
42 0 0 Nett

Size : 2 ft. 5 in. 2 ft. 6 in. 3 ft. 10 in.

Nett weight, 2 cwts.

PRICE (12-way, 1000 watt) ... .. £ s. d.  
66 0 0 Nett

Size : 3 ft. 6½ in. 2 ft. 6 in. 3ft. 10 in.

Nett weight, 3 cwts.

Telephone :  
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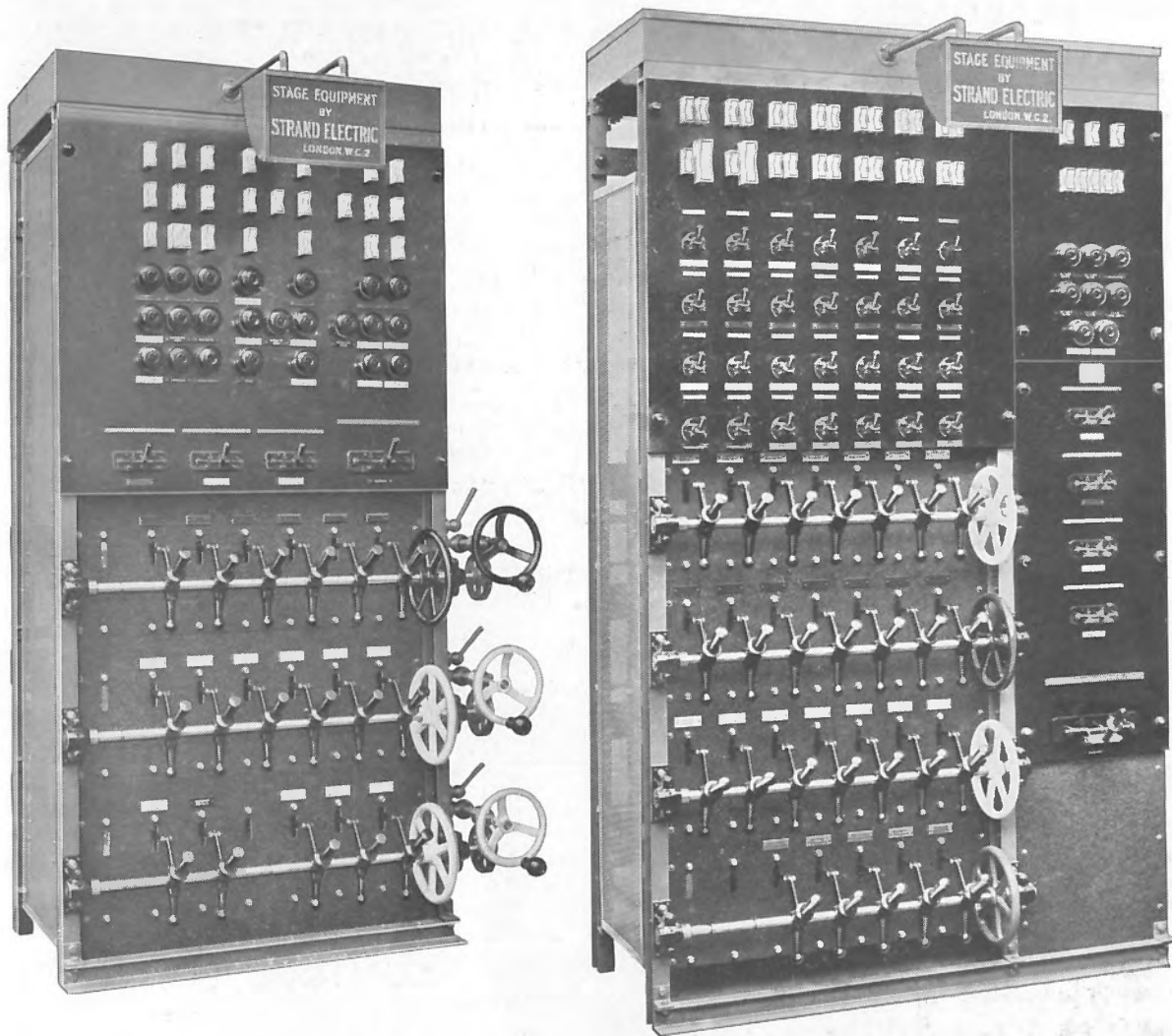
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# STRAND CONTROL

## COMBINED SWITCH and DIMMER BOARDS



The above are two types of dead-front switch and dimmer boards. The one on the left is a 3-colour board, with 15 ampere tumbler switches, back of board colour master switches, bracket type dimmer handles, quick motion master wheels, and slow motion worm drive.

That on the right is a 4-colour board, with 30 ampere back of board type knife switches, back of board colour masters, and master blackout switches, bracket type dimmer handles, quick motion master wheels.

Similar boards have been installed in—

Westminster Theatre  
A.D.C., Cambridge  
Pavilion, Maidstone  
Regal, Margate  
R.M.S. "Queen Mary"  
Winter Gardens, Llandudno  
Holborn Empire

Arts Theatre, Cambridge  
Regal, Wimbledon  
Regal, Rotherham  
Festival Theatre, Edinburgh  
Cork City Hall  
&c., &c.

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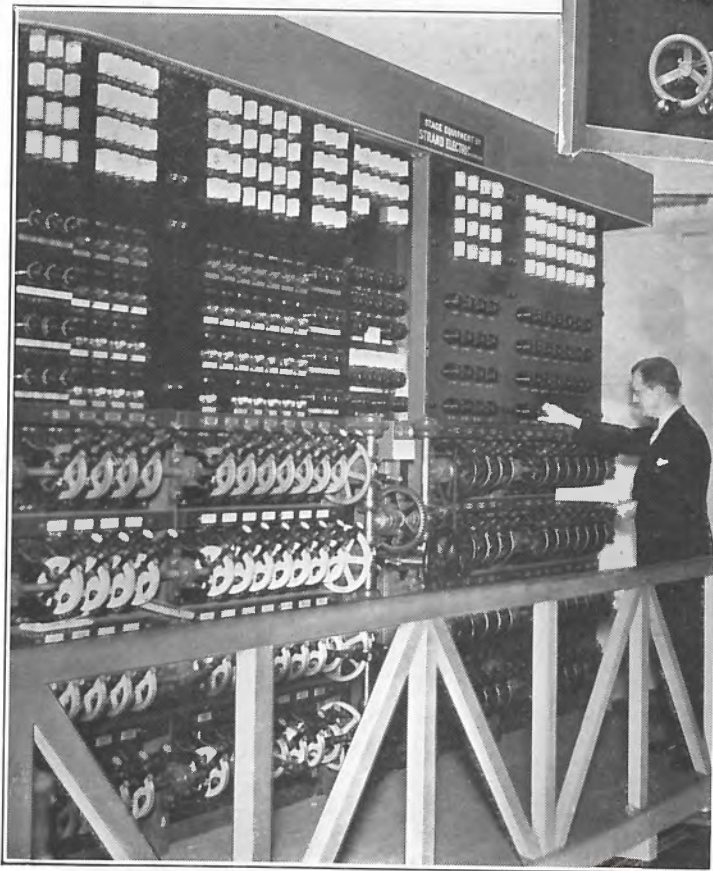
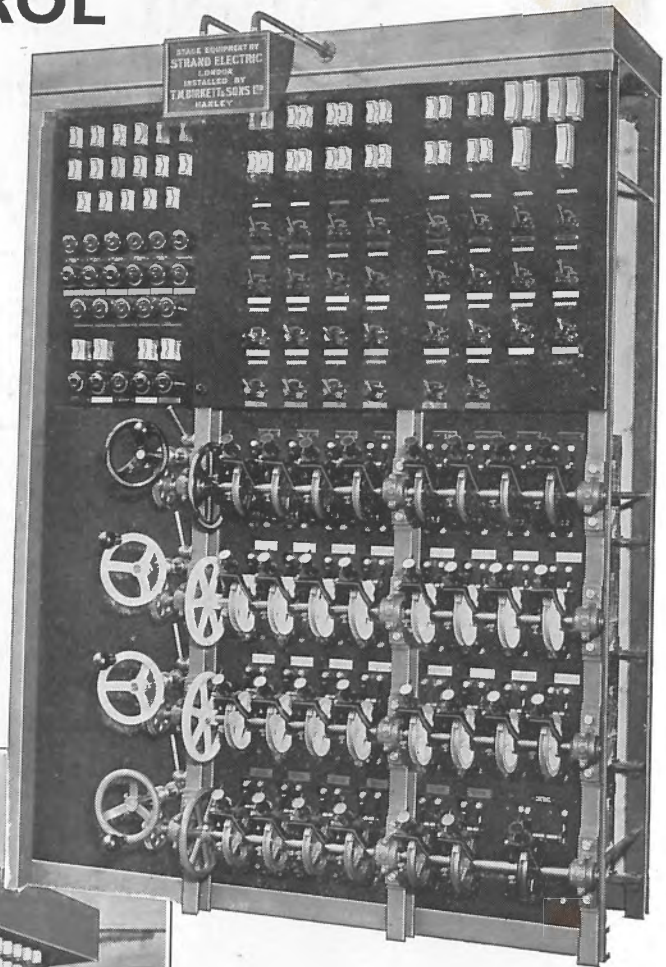


# STRAND CONTROL

## COMBINED SWITCH and DIMMER BOARDS

On the right is shown a four-colour switch-board with back of board switches, remote colour master and master blackouts, self-releasing handles with quick and slow motion master wheels. As installed in Savoy, Globe, and Queen's Theatres, London, and innumerable theatres and cinemas all over the country.

Below is the board installed in the St. James's Theatre, and represents, at the time of going to press, the latest Strand Electric practice.



*Grand Master Board Installed in St. James's Theatre, London*

## GRAND MASTER CROSS CONTROL BOARD

Remote control for colour and independent masters, switching for mastering groups of blackouts, switching to render any or all spots and special circuits independent of the master blackout, etc. Self-release handles with grand master cross control. Constant mesh action provides easy and silent connection of shafts to master wheel. Illuminated scales showing position of check, etc.

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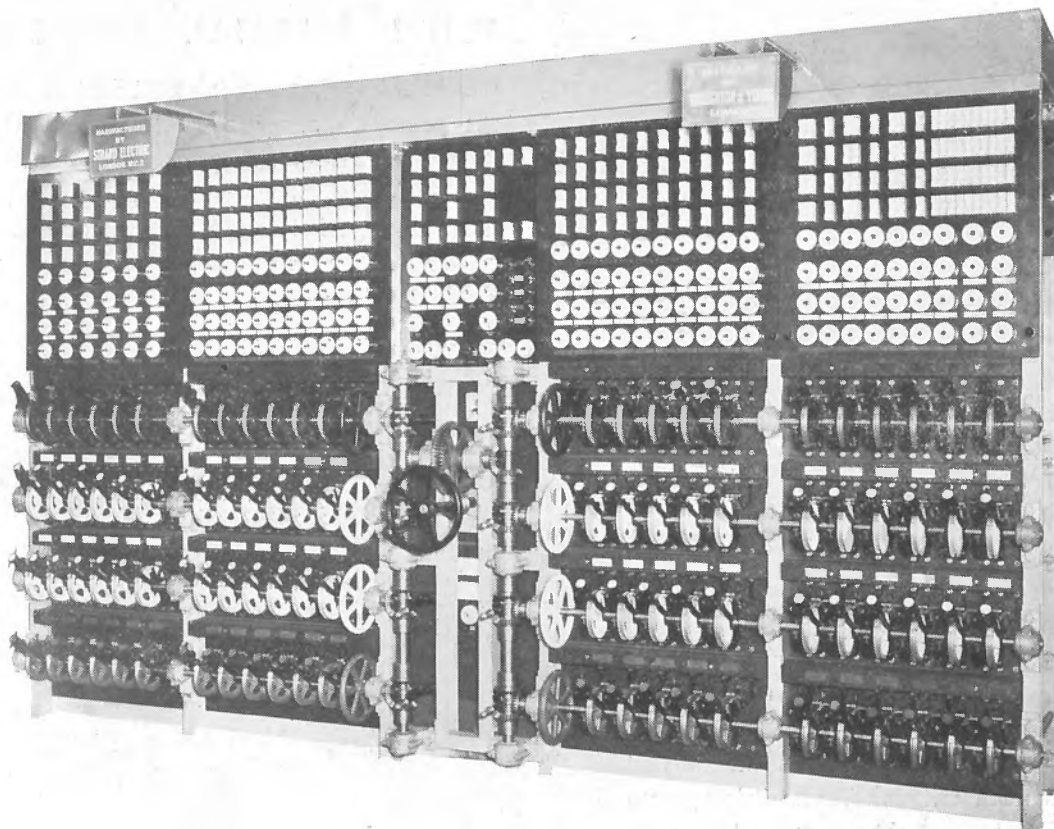
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# STRAND CONTROL

## GRAND MASTER CROSS CONTROL BOARDS



*Grand Master Switchboard installed in the Gaumont State Cinema, Kilburn, London*

Grand Master Boards, with self-releasing handles, as illustrated on this page, have been installed in theatres at home and abroad, including :—

Palace Theatre, London  
 Wyndham's Theatre, London  
 St. James's Theatre, London  
 New Theatre, Oxford  
 Princes Theatre, Bristol  
 Shakespeare Memorial Theatre,  
 Stratford-on-Avon  
 Royal Theatre, Newcastle  
 Gaumont Palace, Lewisham  
 Gaumont Palace, Wood Green  
 Gaumont Palace, Chelsea  
 Granada Cinema, Tooting

Rex, Turin, Italy  
 Alhambra, Paris  
 Theatre Royal, Dublin  
 Prince of Wales Theatre, London  
 Saville Theatre, London  
 Gaumont State, Kilburn, London  
 Piccadilly Theatre, London  
 Wimbledon Theatre, London  
 Alexandra, Birmingham  
 People's Palace, Mile End Road, London  
 Odeon, Edgware Road, London  
 &c. &c.

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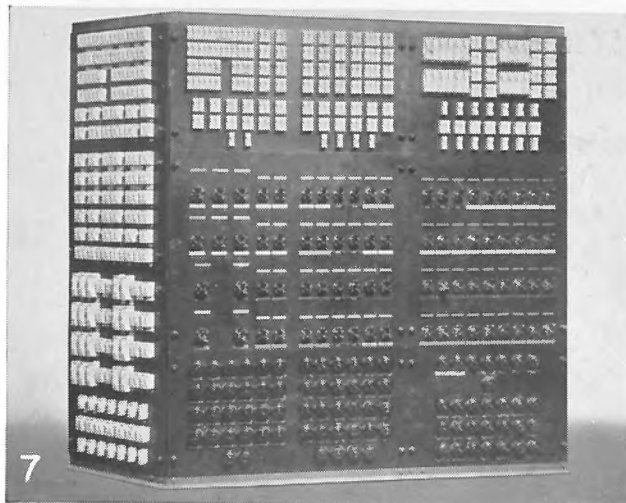
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# STRAND REMOTE CONTROL

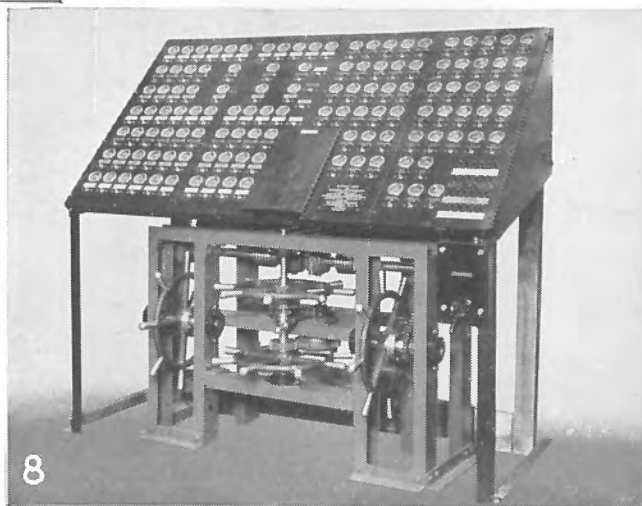


*Covent Garden Switchboard*

the panel. The dimmer ways are each controlled by a 2-way-and-off switch, the up position connecting the "up" clutch to the shaft, the down position the "down" clutch. Thus, some dimmers may be raised, others lowered, while others remain stationary, all on operation of one wheel. The dimmer position is indicated on an illuminated dial over each switch. These dials operate independently of the master blackouts. The action voltage is 12 volts, D.C.

## MAGNETIC CLUTCHES (PATENT No. 373,625) WITH MANUAL DRIVE

On the left is shown the switchboard and below the remote dimmer control installed at the Royal Opera House, Covent Garden. The latter constitutes, at the time of going to press, Europe's largest electric remote dimmer control, controlling no less than 150 dimmer ways, many of which are made up of two or three dimmer plates. The drive is mechanical from the slow or quick motion wheels shown under



*Covent Garden Opera House  
Dimmer Control*



*Covent Garden Opera House Dimmer Bank*

The switchboard (above left) gives switching control of each circuit, together with master blackouts in colour and other groups. All spotlights, dips, etc., may be switched independent of the masters. On the left is shown the remote dimmer bank, 48 ft. long, as assembled in the Strand Electric Works for test. The whole of this equipment was designed and installed in seven weeks.

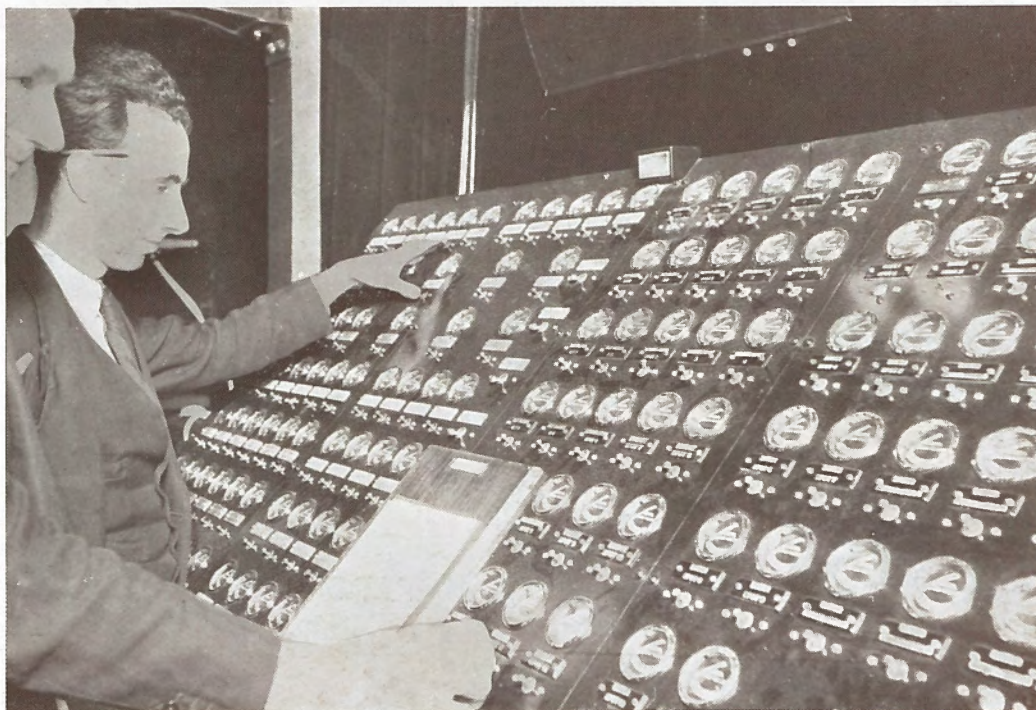
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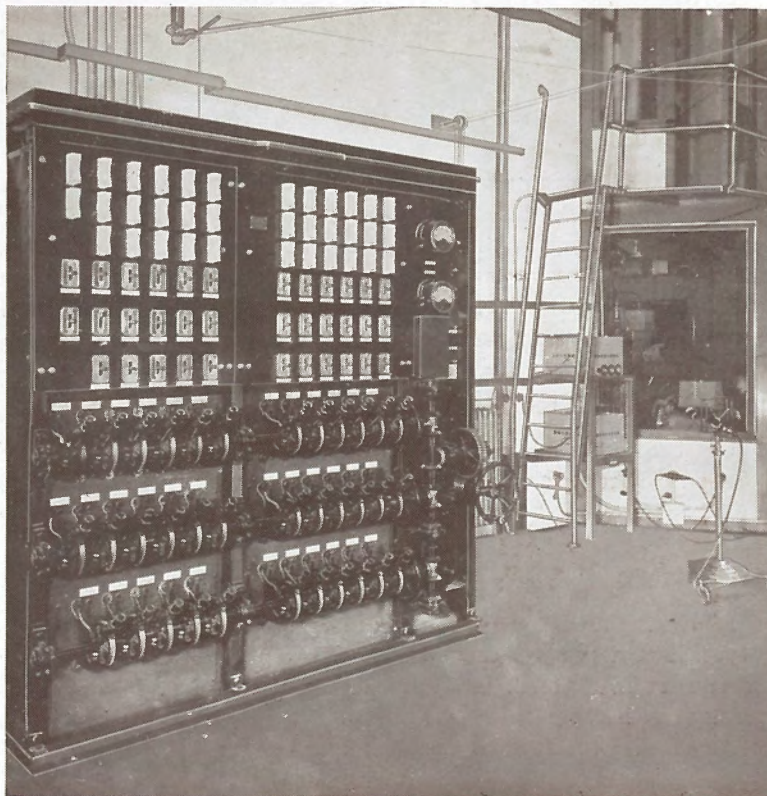
# STRAND REMOTE CONTROL



Light control at the  
opera (above)

## STRAND TELEVISION DIMMER CONTROL

One of the Strand  
Television Switch and  
Dimmer Boards  
(right)



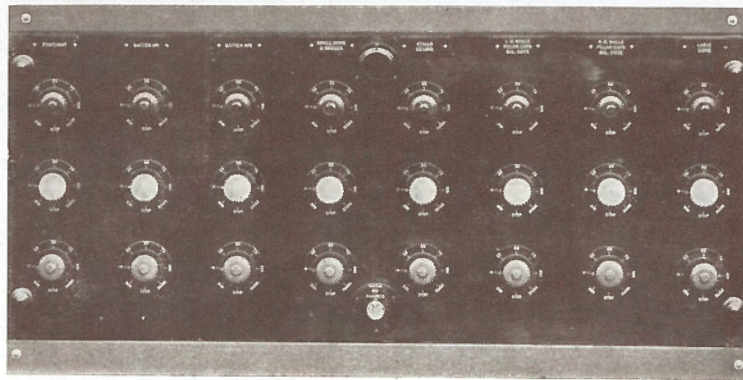
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# STRAND REMOTE CONTROL



## THE STRAND PATENT MAGNETIC CLUTCH

### DIRECTION CONTROL

The remarkable achievement of Strand Electric in the field of remote and automatic dimmer control is very largely due to the Strand Patent Magnetic Clutch. The importance of this device in this field cannot be emphasized too much. With its aid any number of dimmers can be controlled to drive in either direction from a shaft revolving continuously in one direction, the shaft being operated by an electric motor or by hand.

### RESPONSE

Prior to this invention it has always been necessary to operate each dimmer with its own reversing motor. Not only is this more expensive but also quite unreliable. Owing to the momentum, which is inseparable from a motor, accuracy of stopping is impossible. The magnetic clutch stops absolutely dead when the current is switched off. Furthermore, it can be reversed as rapidly as it is humanly possible to operate the reversing switch. This is made great use of in the Light Console. An electric motor would tear itself to pieces under such conditions.

### SPEED CONTROL

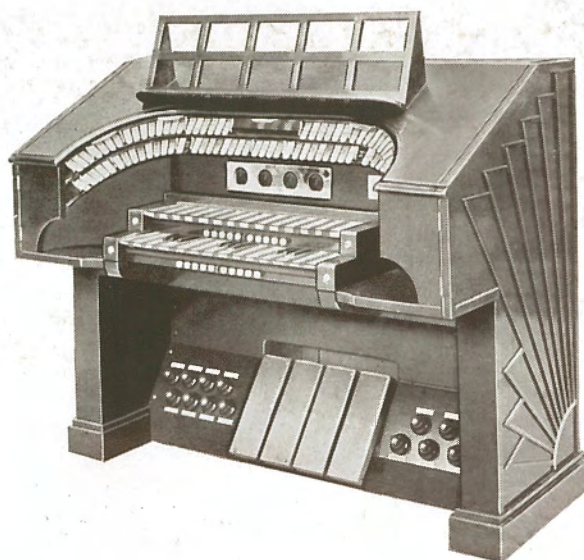
Use has been made of this property of lack of momentum in the clutch by Strand Electric Engineers to design a special form of speed control (Patent applied for). This speed control was introduced in the Light Console but is now available for all forms of remote control.

### POSITION CONTROL

Above is shown a preset control panel whereby the dimmers can be preset to stop accurately at the positions shown on the dial. Furthermore a second dial presets the time taken by the dimmer to arrive at that position. Thus the intensity and the time taken by each circuit to arrive at that intensity can be preset. Meanwhile, in spite of the various speeds and directions on the dimmers, the common motor rotates at a constant speed in the same direction.



# STRAND LIGHT CONSOLE



70-way Light Console

On June 13th, 1935, Strand Electric introduced for the first time the "Light Console," the perfect stage switchboard on which their resources have been concentrated.

Three years previously the Directors had decided that Strand Electric must be in a position to supply a lighting control that would fulfil literally every theatre and cinema requirement.

To this end a close study was made of existing controls in this country, on the Continent and in America. A schedule was made of all their outstanding features ; to this schedule was added every humanly conceivable requirement of the future, including those of the new art of colour music.

It was found that a control to carry out the items on the schedule would have to make an absolute break away from present practice, and it was from the one-man orchestra, the "Cinema Organ," that inspiration was derived.

The Strand Electric claims perfection of control beyond the wildest dreams of the producer's brain, and asks you not just to believe their own claims, but to come and test them for yourself at the Console, in the seclusion of their private theatre.

Right from the start perfection has been sought regardless of expense, with the result that the Light Console joins the Cinema Organ in this respect. However, if the cinema or theatre installation is complete enough, it will be found that the publicity, artistic and showmanship value, quite apart from the labour and time saved at rehearsals, will amply repay the initial high cost of installation of this, the Rolls-Royce of switchboards.

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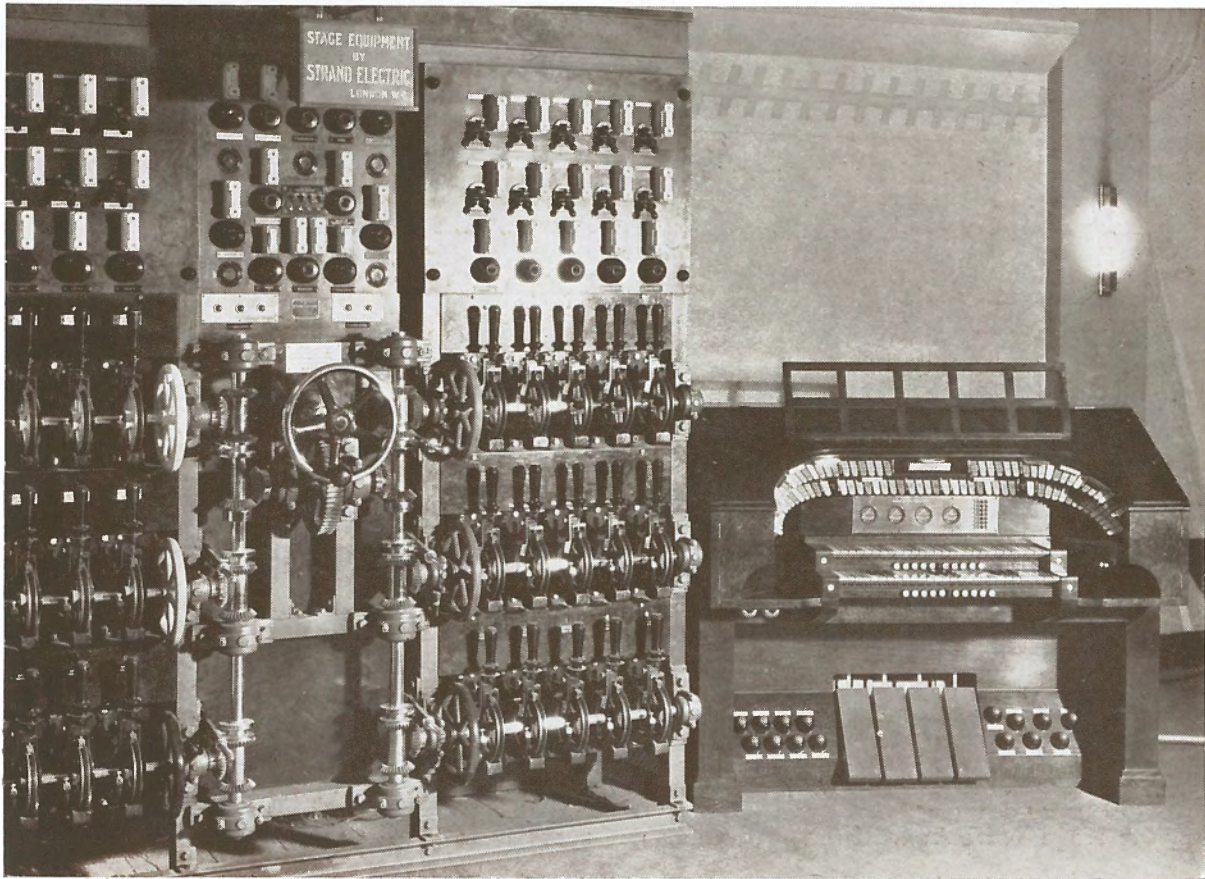
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# STRAND LIGHT CONSOLE



30-way Standard Switch and Dimmer Board compared with 70-way Light Console

## POINTS ABOUT THE STRAND LIGHT CONSOLE

- (1) The apparatus is not a musical instrument. (2) It is a movable and silent Stage Switch and Dimmer Board.
- (3) It can and should control Auditorium Colour Lighting. This will ensure that the stage effects and auditorium effects are in harmony.
- (4) No matter how many lighting dimmer circuits there are, the controls will always be in arms' reach of the seated operator.
- (5) Speeds of dimmer travel range from instantaneous, 5 secs., 7½ secs., 10, 20, 40, 80, 160 secs., up to half-hour duration.
- (6) The speeds can be set to work unattended.
- (7) Any dimmer or combination of dimmers may travel in the same or different directions at the same or different speeds.
- (8) 24 Scenes can be preset to instantaneous change by pressing one button.
- (9) 24 Scenes can be preset to change on the dimmers by pressing one button.
- (10) Position to which dimmers are to travel can be preset in 10% steps.
- (11) All presetting is carried by a master setter piston instantaneously without leaving the Console seat and does *not* involve setting up two-way and off switches as is usual.
- (12) Position of any dimmer may be read at will.
- (13) All action is 15 volts D.C. and the Console can be arranged to plug up in different positions if desired.
- (14) Only one motor with a standby is used as drive, and dimmers are connected to this by the Strand Patent Magnetic Clutch.
- (15) The Magnetic Clutch has no momentum so that the dimmer can be made to stop accurately and furthermore can be reversed instantaneously to and fro.
- (16) It can be set up to give automatic colour cycles; for Auditorium colour lighting.
- (17) Any circuit may be switched full on or blacked out irrespective of the position of the dimmer.
- (18) The lighting circuits may be master "Blacked out" or any group of lights may be "Blacked out," leaving any others on. These also may subsequently be "Blacked out" if required.
- (19) All lighting can be dimmed out at the fastest speed by touching one push button marked "general dim."
- (20) The lighting can be changed from a colour effect to "full up" stage at the end of a number, and back to the colour effect again for an encore, by moving one pedal only.
- (21) The most complicated plots can easily be written down in a few pages by a special notation for reproduction by deputy.

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# STRAND LIGHT CONSOLE



## LIGHT CONTROL AT THE FINGER TIPS

THE MOST COMPACT SWITCH AND  
DIMMER BOARD IN THE WORLD

*Write for 12-page descriptive brochure*

**Demonstrations in the Strand Electric theatre by appointment**

Telephone :  
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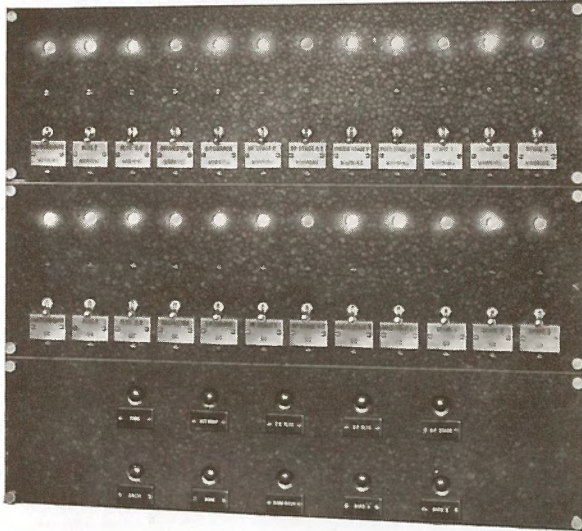


# STRAND CONTROL

## SIGNAL BOARDS

Quite apart from the actual control of the lighting installation, another but equally important form of control is required, if the show is to run smoothly.

To enable the Stage Manager to give his all important cues, a really reliable and compact signal board must be installed in the prompt corner. Such a signal board is the Strand. Made up of sheet steel, it consists of two 2-way switches and two lamps mounted behind red and green glasses per station.



*Cue Board at Palace Theatre, London.*

The operation procedure is as follows :—

To warn, say, orchestra, the "Warning" switch is used. This lights a red lamp in the orchestra pit and one in series on the signal board. These are then switched out by the conductor's two way switch to show that he has received the signal.

The same procedure is adopted for "Go."

The signal boards are fitted with silent switches, clearly labelled, and are finished black crystalline enamel. They are well ventilated, and easy access is provided for wiring. They are generally supplied for wall mounting.

Pushes to each station operating on buzzers are sometimes fitted. These serve to draw attention to the signal lamps during rehearsals, when attention may be flagging.

Single way switch working will be supplied if preferred.

*Prices on application, on receipt of requirements.*

## ARC CONTROL PANELS

Modern projector room practice has abolished the old arc switch-board and its associate series type resistance regulators. Arc control is generally effected from a switch on the wall behind the machine, and regulating resistances are of the parallel type, housed in an adjacent room. The resistance steps are brought in from a small control panel mounted under the projection port for the particular machine. Increase of arc current is brought about by paralleling more sections of resistance, a very logical method.

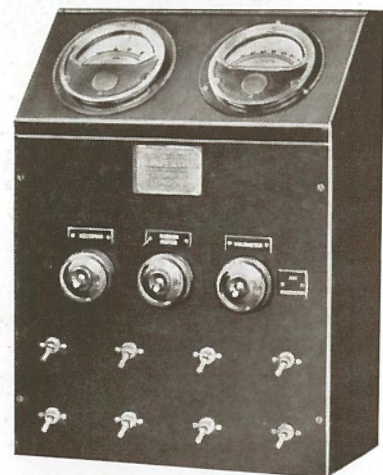
Strand arc panels incorporate 15 ampere quick break switches of the correct number to give the desired steps. (These are of such a type that they cannot get knocked on or off accidentally.) An ammeter and voltmeter with fuses and switch. (These instruments are tilted for easy reading.)

Push buttons for curtain controls, automatic dimmer, magnascope screen, and signal lights can be incorporated, giving complete control from one position.

Finished black crystalline or white enamel, with nickel-plated fittings. Arranged for surface or flush mounting, as desired.

Strand also manufacture panels for contactor operated resistances.

*Prices and specification will be forwarded on receipt of requirements.*



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## STRAND AUDITORIUM COLOUR LIGHTING

This branch of theatrical lighting has been extensively developed by Strand Electric experts.

Among their contracts is the Regal, Kingston, where colour lighting throughout the auditorium adds the charm of moving colour harmonies to Mr. Robert Cromies' delightful decorative scheme. The lighting is controlled by an automatic dimmer which fades up on depressing a button into a cycle of colour change which continues to change until the dim button is used, whereupon the lighting fades through the blues into darkness.

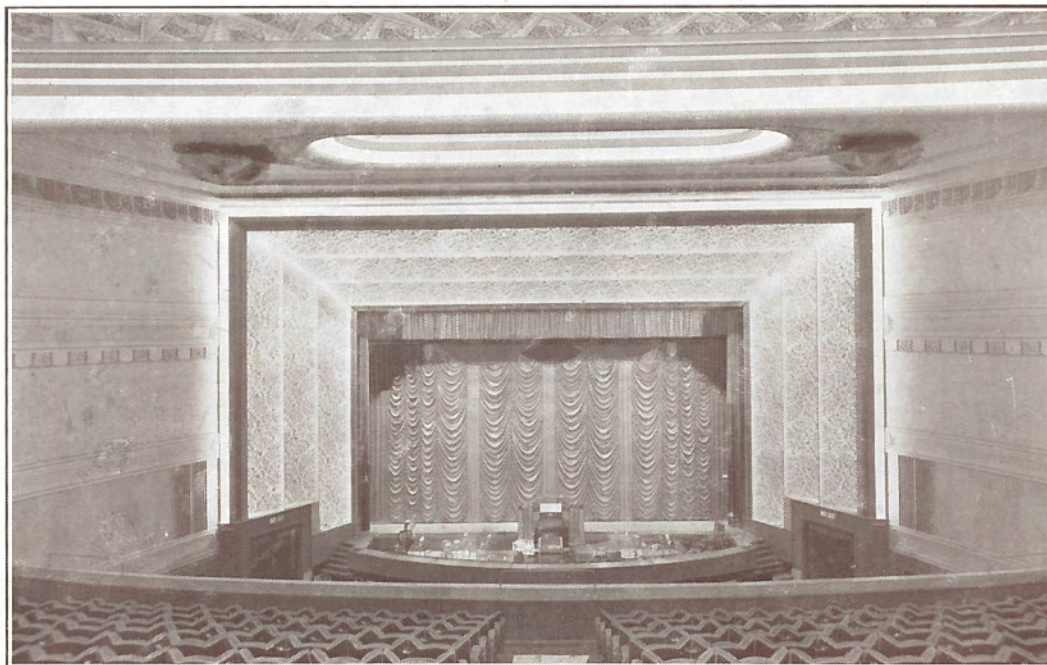
In the Winter Gardens, Llandudno, the whole of the auditorium features are illuminated by STRAND magazine troughing in three colours. Each type has been specially designed for the particular job for which it is used. The main ceiling cove is 70 ft. across and is illuminated by 40 watt lamps at 9 in. centres, with double wattage to the blue. Special care has been taken in all types of magazine troughing to ensure even mixing without spottiness when used at short range.

There is considerable diversity of opinion among architects as to the advisability of putting coloured lighting in the whole auditorium, it being considered that the audiences' attention ought to be directed at the proscenium end of the theatre. In this event, a proscenium arch illuminated in three colours is probably the most effective feature.

In the Regal, Edmonton, there are three proscenium coves, one inside the other; the largest of these is 90 ft. across. They are illuminated from Strand magazine troughing in four colours—Red, Blue, Green, and White—thus giving an infinite variety of colour harmonies at a position where they may be most easily viewed by the audience.

Other very effective installations have been carried out in Greens Playhouses at Glasgow and Ayr, also for the Torquay Electricity Supply Corporation New Showroom and Demonstration Theatre.

Strand auditorium lighting can be controlled from any of the dimmer boards illustrated on pages 77-80. However, in many instances automatic dimmers give better results. Automatic dimmers can be designed to give any type of cycle to conform with the clients' ideas and requirements.



*Proscenium Arch, Regal Cinema, Edmonton*

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# STRAND AUDITORIUM COLOUR LIGHTING

## MAGAZINE CORNICE LIGHTING

This method is vastly superior to the standard troughing with coloured lamps, where coloured lighting in the theatre or cinema auditorium is used. The resulting colour mixing is far more satisfactory, all colours being much purer and therefore more exciting.

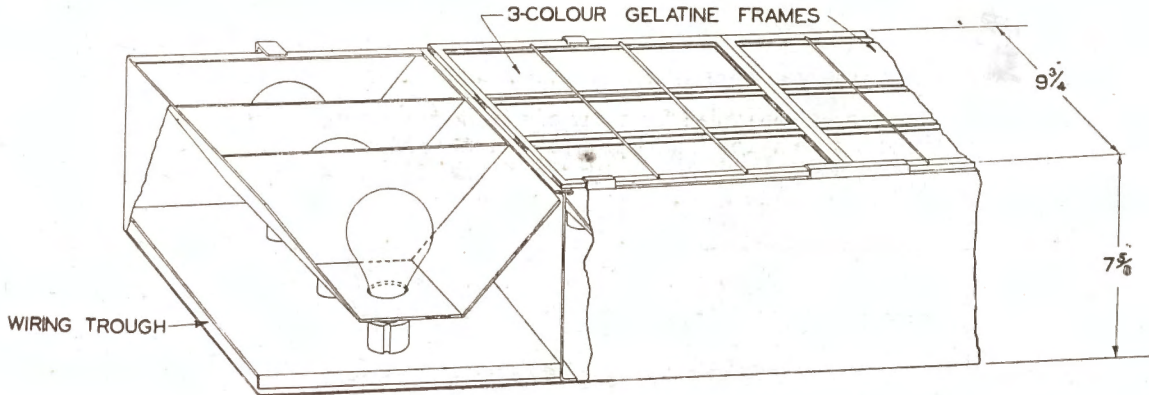
### SPECIFICATION

Constructed of lead-coated sheet steel, with three- or four-colour compartments per foot. Colour compartments run parallel to each other and are fitted with white enamel reflector, B.C. or E.S. holder, and easily removable colour frames and gelatine.

PRICE (per foot run, wired 3-colour) ... ..	30/-	} Nett weight per 6 ft. section, 6½ lbs.
(per foot run, wired 4-colour) ... ..	35/-	

Lamps : 25, 40, or 60 watt General Service.

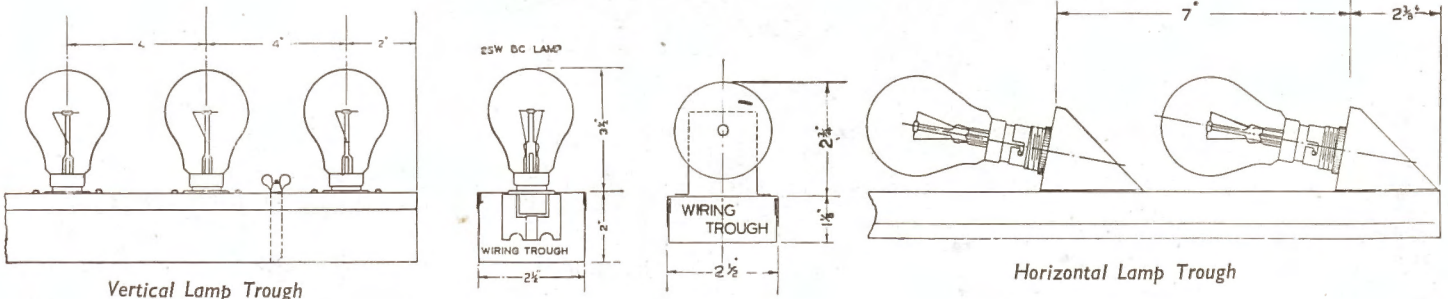
Prices for other types of Magazine Troughing, for special situations, on application.



## LAMP TROUGHING

Illustrated below are the two types of standard troughing. These are constructed of lead-coated sheet steel, finished white enamel. Lampholders are fitted at any centres required, and are wired in the circuits to suit customers' requirements.

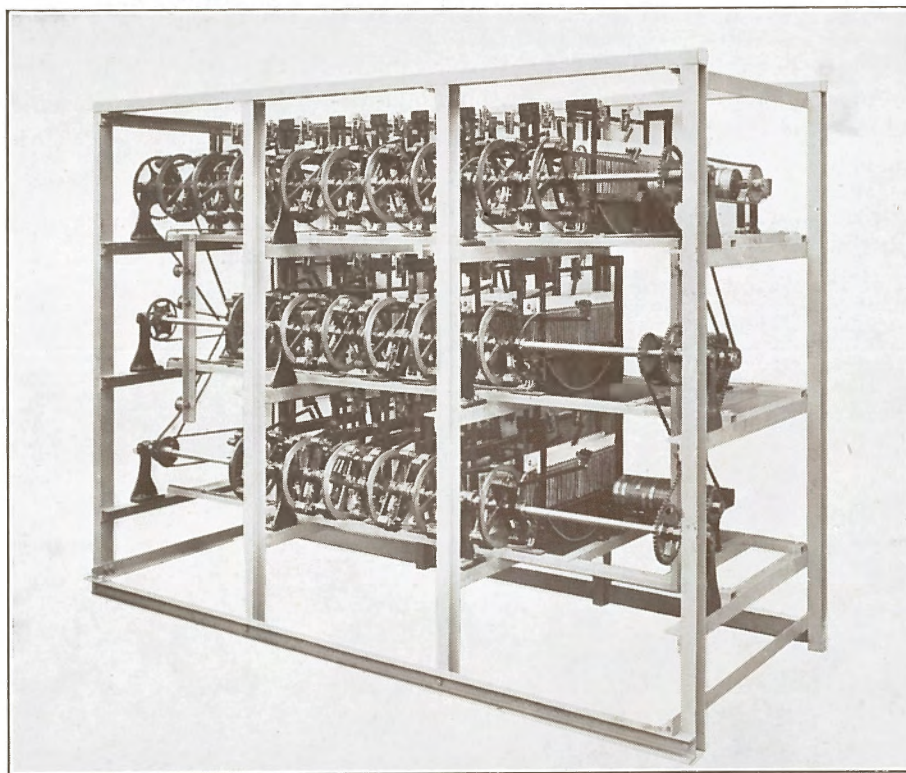
Prices on application





# STRAND AUTOMATIC DIMMERS

Strand Electric can devise automatic or semi-automatic dimmers to meet any type of job conceivable. Automatic cycles with an alternative of hand operation, or variable automatic cycles can be provided. There is the "wave" dimmer as used in the auditorium of the Shakespeare Memorial Theatre. Here, on pressing the "dim" push, the lighting fades out, beginning at the rear of the auditorium, with the proscenium end last to be extinguished, thus drawing the attention of the audience to the stage. Another instance, that of an equipment for a London ballroom, may be quoted. In this case, as in the "wave" dimmer, the Strand patent magnetic clutch is employed. Normally, the colour lighting in the various decorative coves is operable by means of 2-way-and-off switches (raise, lower, and stop). When, however, the ballroom is let or an experienced operator is not available, depression of one switch cuts out the individual control and brings in an automatic cycle. A further refinement, in the shape of a pointer, which can be set to Waltz, Quick Step, Slow Fox Trot, and Tango, gives a cycle which is particularly suited to the dance in question. For instance, the Waltz cycle consists of Dark Blue, Moonlight, and Mauve; while for the Tango; Orange, Red, Magenta, and so on. A further 2-way switch gives control of the normal decorative white lighting. The whole dimmer is driven by one motor.



*Photograph of Strand Automatic Dimmer showing Patent magnetic Clutch*

To sum up, with the aid of the magnetic clutch and other Strand inventions, such as their one-dimmer colour mixing drum unit, there is no limit to what may be achieved in automatic work. At the same time, the price of a Strand Electric automatic dimmer is as low as is compatible with efficiency and reliability.

Automatic dimmer enquiries should be addressed to Research Department.

---

Telephone : Temple Bar 7464 (6 lines).	<b>STRAND ELECTRIC</b> <b>AND ENGINEERING CO., LTD.</b>	Telegraphic Address : Spotlite, Rand, London.
<b>FLORAL STREET, COVENT GARDEN, W.C.2</b>		



## STRAND OUTDOOR FLOODLIGHTING

At the present day when the floodlighting of buildings, both ancient and modern, is particularly to the fore, the need for care in the design of an installation cannot be too strongly stressed. Floodlighting, that is just night illumination, is no longer a novelty, and it is only by artistic use of this medium that a building can be lifted from the common rut and brought before the public eye.

Strand Electric bring a new outlook on this very real problem, the outlook of the stage lighting engineer—a man to whom lighting is not merely a question of illumination, but of light and shade, a man to whom colour and artistic expression in light are no strangers. A glance at some of the unusual installations undertaken by the Strand Electric will bear witness to their ability to make a floodlighting installation live.

First and foremost comes the Open Air Theatre, Regent's Park, the best known outdoor theatre in the British Isles. Here the fascinating lighting, not only of the acting area but of the trees and shrubbery that provide the setting, receives fresh eulogies in the press with the advent of each production.

Then the Tower Pageant and Tattoo, where an installation of floods and spotlights on colour circuits gave to an outdoor pageant, in an arena 400 yards long, all the facilities of a stage equipment.

To come to the floodlighting of buildings, it has been Strand Electric's pleasure to light the spires of two of the best known churches in the country—St. Martin-in-the-Fields, of broadcast fame, and Salisbury Cathedral, with England's highest spire. Fuller details of the latter installation, which is noteworthy for the small number of flood units used, are given on page 95.

New outlets for outdoor floodlighting are constantly appearing, such as swimming pools, gardens, pleasure grounds, and many are the novel ideas that can be exploited. The advice of the Research Department is at the disposal of all interested.



*The Open Air Theatre, Regent's Park, London*

Telephone :  
Temple Bar 7464 (6 lines).

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**AND ENGINEERING CO., LTD.**  
**FLORAL STREET, COVENT GARDEN, W.C.2**

Telegraphic Address :  
Spotlite, Rand, London.



Cancelled

# STRAND OUTDOOR FLOODS

## PATTERN 38 500 Watt "GENERAL" FLOOD



This lantern gives a *wide angle* beam of light, suitable for use at close range for illuminating posters, small buildings, and other general work.

### SPECIFICATION

Lantern constructed in copper, with spun body, efficiently ventilated. Hinged front door carrying domed heat resisting glass and frame for either glass or "Chromoid" colour medium. Three-piece Type 38 silvered glass "SUNRAY" reflector. Tilting cradle and heavy cast base, 3 in. diameter locking wheels. Finish : service grey enamel outside, matt black inside.

PRICE (exclusive of Lamp) ... **£6 17 6**

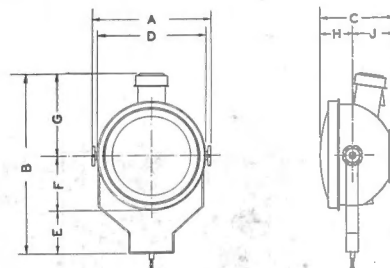
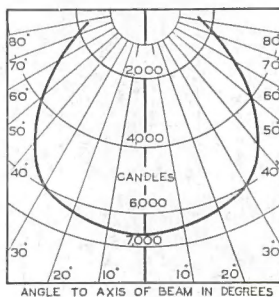
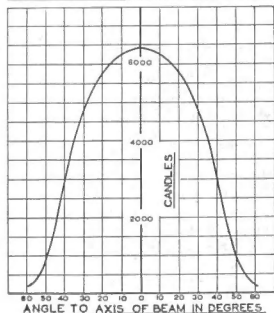
J 213 "Chromoid" colour mediums (cut to size) ... .. **2s. 3d.** each

J 214 Coloured glass strips ... .. **5s. 6d.** per set

Lamp : 500 watt Angle Burning General Service G.E.S. Cap.

Beam Angle 100°. Cut Off Angle 110°

SUNRAY 3 PIECE REFLECTOR  
WITH 500W ANGLE BURNING GENERAL PURPOSE LAMP  
PATT 37 WING FLOOD & 38 OUTDOOR FLOOD



DIMENSIONS. PATTERN 38.

	Ft. in.		Ft. in.		Ft. in.
A ...	1 3 1/2	D ...	1 1 1/2	G ...	10
B ...	1 10	E ...	5 1/2	H ...	3 3/4
C ...	9	F ...	6 1/2	J ...	5 1/2

Nett weight of Lantern, 15 1/2 lbs.

## PATTERN F I 300-500 Watt "JUNIOR" FLOOD

Cancelled

This lantern has been designed to fill the need for a cheap lantern, to carry out simple jobs such as illumination of garages, small posters, etc., and other situations where accurate beam control is a secondary consideration.

PRICE (exclusive of Lamp) ... **£3 0 0**

Overall Dimensions : Length, 14 in. Width, 12 1/4 in. Height, 15 in., including base plate.

Nett weight of Lantern, 8 1/2 lbs.

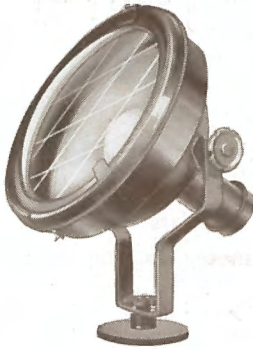
Lamp : 300 or 500 watt Angle Burning General Service. G.E.S. Cap.



*Cancelled*

# STRAND OUTDOOR FLOODS

## PATTERN 46. 1000 Watt FLOOD



This lantern gives a *medium angle* beam of light suitable for flooding objects from some distance away.

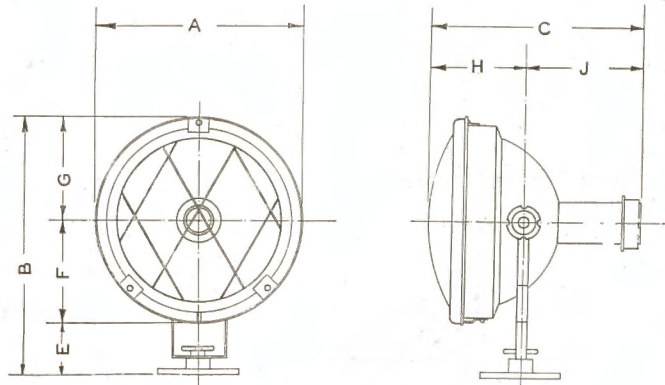
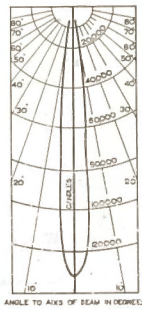
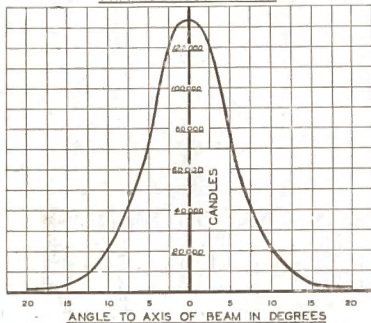
### SPECIFICATION

Lantern constructed in copper with spun body, efficiently ventilated. Hinged front door carrying domed heat resisting glass and frame for either glass or "Chromoid" colour medium. One-piece Type 46 circular silvered glass "SUNRAY" reflector. Tilting cradle and heavy cast base, 3 in. diameter locking wheels. Weather-proof entry for wiring. Finish: Service grey enamel outside, matt black inside.

PRICE (exclusive of Lamp) ... **£8 17 6**

- J 215 "Chromoid" colour mediums (cut to size) ... .. **2s. 9d.** each
  - J 216 Coloured glass strips ... .. **9s. 6d.** per set
- Lamp : 1000 watt Angle Burning General Service.  
 Beam Angle 54°. Cut Off Angle 125°.

SUNRAY 15" CIRCULAR REFLECTOR  
 WITH 1000W ANGLE BURNING GENERAL PURPOSE LAMP.  
 PATT. 46 OUTDOOR FLOOD



PATTERN 46

	Ft.	In.		Ft.	In.
A	...	6	F	...	9
B	...	11	G	...	8 1/2
C	...	6 1/2	H	...	10 1/2
E	...	5 1/2	J	...	...

Nett weight of Lantern, 26 lbs.

*Cancelled*

## PATTERN 46 A. 1000 Watt FOCUS FLOOD

This lantern is similar to the above, but is designed for use with a 1000 watt Class B1 projector lamp. By means of a focussing adjustment a variety of beam angles from 20° to 45° may be obtained.

PRICE (exclusive of Lamp) ... **£9 10 0**

Overall Dimensions and Weight as for Patt. 46.  
 Lamp : 1000 watt Class B1 Round Bulb Projector.



Cancelled

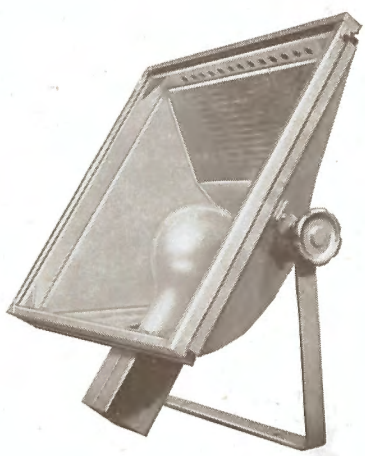
# STRAND OUTDOOR FLOODS

## PATTERN 47 500-1000 Watt SQUARE FLOOD

This lantern gives a wide angle horizontal beam, while the vertical distribution is so arranged that the maximum intensity is projected upwards. The lantern is therefore eminently suitable for even illumination of buildings at short range, and may be mounted either on brackets or on canopies, etc.

Lamp : 500 or 1000 watt Angle  
Burning General Service.

Beam Angle { Vertical 99°.  
Horizontal 103°.

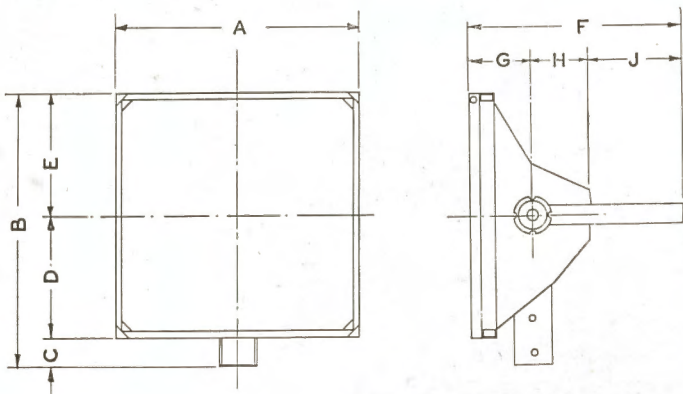


### SPECIFICATION

Lantern constructed in lead-coated sheet steel, efficiently ventilated. Sectional silvered glass reflector. Heat resisting front glass. Frame for "Chromoid" colour medium. G.E.S. holder mounted on a special adjustable tray, giving correct filament position for 500 watt or 1000 watt lamp. Cradle with 3 in. locking wheels. Finish : sprayed aluminium inside and out.

PRICE (exclusive of Lamp) ... £6 0 0

J 217 "Chromoid" colours (cut to size) ... .. 4s. 0d. each



PATTERN 47					
	Ft.	In.		Ft.	In.
A ...	1	7½	D ...	9¾	
B ...	1	10½	E ...	9¾	
C ...		3	F ...	1	5
			G ...		5
			H ...		4½
			J ...		7½

Illuminated Fountain 60ft. long for London Fire Brigade on River Thames at Lambeth Bridge

Nett weight of Lantern, 25 lbs.

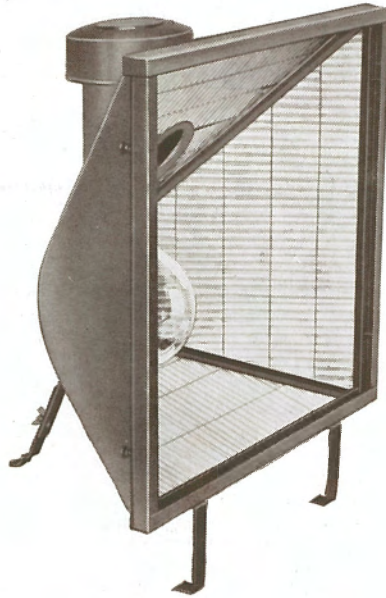


*Cancelled*

# STRAND OUTDOOR FLOODS

## PATTERN 48 1000 Watt SQUARE FLOOD

This lantern is suitable for even flooding of a building from a forecourt and other positions where a few lanterns are required to cover a large area. Owing to the large reflector very efficient use is made of the output of the lamp, and provided that sufficient space is available this lantern provides very economical working.



Lamp : 1000 watt Angle Burning  
General Service. G.E.S. Cap.

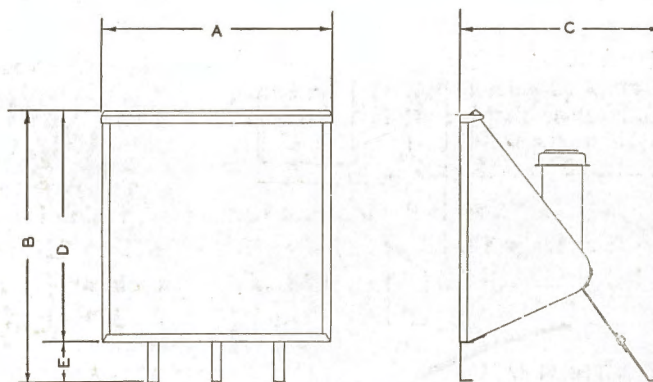
Beam Angle { Vertical 95°.  
Horizontal 100°.

### SPECIFICATION

Lantern constructed in lead-coated sheet steel, efficiently ventilated. Sectional silvered glass reflector. Heat resisting front glass. Frame for "Chromoid" colour medium. Mounted on two legs in front and one adjustable at rear, giving variable angle of tilt. Finish : service grey enamel outside, white enamel inside.

PRICE (exclusive of Lamp) ... **£7 10 0**

J218 "Chromoid" mediums (cut to size) ... .. 4s. 0d. each



PATTERN 48

	Ft.	In.	Ft.	In.	Ft.	In.		
A ...	1	10½	B ...	2	3			
D ...	1	11	E ...		4	C ...	1	6

Nett weight of Lantern, 30 lbs.

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AND ENGINEERING CO., LTD.**

Telephone :  
Temple Bar 7464 (6 lines).

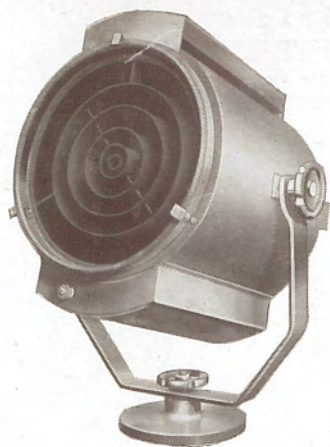
**FLORAL STREET, COVENT GARDEN, W.C.2**

Telegraphic Address :  
Spotlite, Rand, London.



# STRAND OUTDOOR FLOODS

## PATTERN 50 B "OUTDOOR PAGEANT LANTERN," 1000 Watt



This lantern provides a very intense narrow angle soft edge beam of light, with slight variation in size of beam. Suitable for floodlighting church spires and objects from a distance. Particularly useful as spotlights in pageants, as it enables highlights to be put on groups of characters, thus giving a life to pageants hitherto seen only when searchlights have been available.

The highest spire in the country, that of Salisbury Cathedral (404 ft. to the cross) was lit by only four of these lanterns, with 1000 watt Class B Lamps, to each of the four sides, while the tower was illuminated by four Pattern 46 Lanterns to each side. The lanterns were mounted on the roof, giving a maximum throw of 350 ft.

### SPECIFICATION

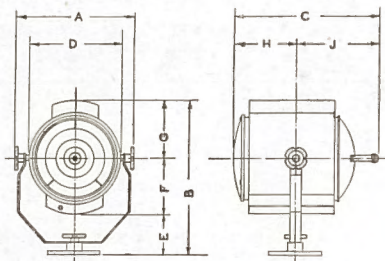
Lantern constructed in lead-coated sheet steel efficiently ventilated. Spun copper door at rear carrying 10 in. diameter silvered glass parabolic reflector Type 50 tray, giving axial and vertical adjustment for lamp filament. Worm drive focussing. Front of lantern fitted with removable spill rings to cut off direct rays of light. Removable glass diffusing screen, and provision to take coloured glass strips. Weatherproof cable entry. Cradle with 3in. diameter tilting wheels, heavy cast base. Finish: sprayed aluminium outside, matt black inside.

PRICE (exclusive of Lamp) ... **£9 5 0**

J219 Coloured Glass Diffusing Screens (Red, Pink, Blue or Amber) ... **3s. 6d.** each

Lamp: 1000 watt Class A.1 Tubular or Class B.1 Projector. G.E.S. Cap.

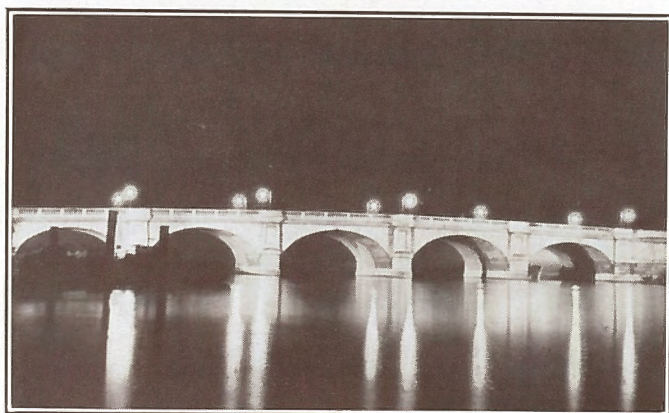
Beam Angle: Maximum 17°. Minimum 11°.



### PATTERN 50B

	Ft.	In.
A ...	1	3½
B ...	1	8
C ...	1	6½
D ...	1	0
E ...		6
F ...		6½
G ...		7½
H ...		8
J ...		10½

Nett weight of Lantern, 25 lbs.



Kingston Bridge



Property beacons on Shell-Mex building, London

Telephone:  
Temple Bar 7464 (6 lines).

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**AND ENGINEERING CO., LTD.**  
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Telegraphic Address:  
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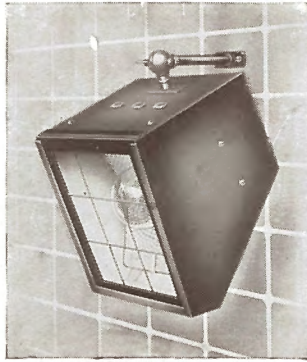
## STRAND SHOP WINDOW LIGHTING

There is a marked similarity between stage lighting and shop window lighting. Both demand a knowledge of the artistic and showmanship value of light. Thus, those installations of shop window lighting or exhibition stand lighting that Strand Electric engineers have designed, have been singularly successful. The units are a modification of the apparatus and "SUNRAY" reflectors so well known on the stage.

### SHOP WINDOW FLOOD (Bracket Unit)



Bracket Unit  
(Flood Type : Position 1)



Bracket Unit  
(Position 2)



Bracket Unit  
(Position 3)

Unit incorporates the well-known "SUNRAY" batten reflector. This patent reflector gives high efficiency combined with proper light distribution. They are specially designed to take colour mediums. Single units

constructed in metal efficiently ventilated. Fitted with "SUNRAY" glass reflectors—colour frames and fixing bracket or chains. To take 60, 100 or 150 watt Gas-filled Theatre Batten Lamps.

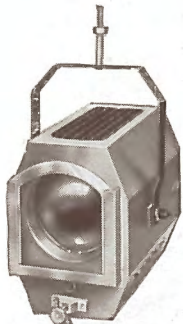
PRICE per unit (exclusive of Lamp) ... £1 7 6  
Gelatine Colours in Frames ... 14/- per doz.

### BABY SUNRAY FLOOD PATTERN 32 (100-150 Watt)

Heavier type of above, suitable for rough usage such as exhibition work, etc.

PRICE (exclusive of Lamp) ... £2 4 0  
Gelatine Colours in Frames 14/- per doz.

### Patt. 45. MINIATURE SPOTLIGHT (100 or 250 Watt)



Lantern constructed in sheet steel, efficiently ventilated. Access to lamp by hinged door at rear.  $4\frac{1}{2}$  in. diameter,  $6\frac{1}{2}$  in. focus plano-convex lens, Type 45 tray, complete with spherical chromium-plated reflector. Focussing by knob under lantern. Colour runner on front. Rockbestos tails. Finish: black crystalline enamel outside, matt black inside.

PRICE (exclusive of Lamp) ... £3 10 0

Millboard colour frames and assorted gelatines ... .. 7s. 9d. per doz.

Lamp: 250 or 100 watt Class B Round Bulb Projector.

Overall Dimensions: Height  $8\frac{1}{2}$  in. Width 9 in. Length  $11\frac{1}{2}$  in.

Shop Window Spot Nett weight of Lantern,  $9\frac{1}{2}$  lbs.

### SHOP WINDOW MULTIPLE FLOOD (60, 100 or 150 Watt)

Constructed of light gauge sheet metal, finished white enamel. Chains for suspensions. E.S. lampholders, float type "SUNRAY" reflectors, at 8 in. centres.

K 221 PRICE per 4 ft. length (without Lamps) ... ON APPLICATION.

Telephone:  
Temple Bar 7464 (6 lines).

**STRAND ELECTRIC  
AND ENGINEERING CO., LTD.**

Telegraphic Address:  
Spotlite, Rand, London.

**FLORAL STREET, COVENT GARDEN, W.C.2**



Cancelled

# STRAND PHOTOGRAPHIC LIGHTING

The majority of the Strand Floods listed on pages 19-27 are suitable for photographic and film work. The "SUNRAY" silvered glass reflector gives such an increase in light when compared with the orthodox type that large wattages are no longer necessary. Furthermore, as diffusing screens are unnecessary when this reflector is used, the usual reduction in light is avoided.



Pattern 41

The following patterns have proved very popular for location work, etc.

Pattern 49. "General Flood," on telescopic stand, with 1000 or 1500 watt General Service Lamp. (See page 22.)

Pattern 59. "Overhead Flood," for suspension, with 1000 or 1500 watt General Service Lamp. (See page 25.)

Pattern 50. "Highlight Spot," on heavy base or telescopic stand, with 1000 or 1500 watt Class A.1 Tubular Lamp. (See page 34.)

Pattern 100. "Focusable soft edge spot" to take 1000 or 2000 watt lamps. (See page 35.)

## PATTERN 41. PORTABLE PHOTO FLOOD. 1000 Watt

This is a compact flood lantern constructed in aluminium, carrying Type 31 circular "SUNRAY" silvered glass reflector. Front of lantern fitted with doors to control side light, which can be closed for transit, and lamp switch. Complete with light folding stand. Finish: black crystalline enamel outside, white inside.

PRICE (exclusive of Lamp) ... £4 10 0

Lamp : 1000 watt A.1 Tubular Projector.

Dimensions : Height 3' 1" min., 5' 3" max. Width 14" (Doors closed). Depth 5".

Nett weight, including stand, 15 lbs.

## PATTERN 46 B. 2000 Watt PHOTO SPOT

Lantern constructed in copper, with spun body, efficiently ventilated. One-piece Type 46 circular silvered glass "SUNRAY" reflector. Lampholder mounted on focussing adjustment, giving a variety of beam angles from 20° to 45°. Tilting fork with 3 in. diameter locking wheels. Finish : black enamel outside and inside.

PRICE (exclusive of Lamp) ... £7 10 0

Light telescopic stand (maximum height, 7 ft. 0 in. ;

minimum, 4 ft. 3 in.) ... .. £1 5 0 each

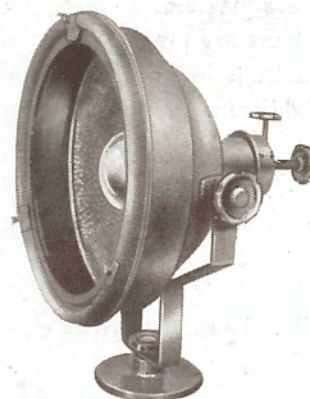
Lamp : 2000 watt Cinema Studio, page 104.

Dimensions : Height 1' 11", Width 1' 6". Depth 1' 6 3/4".

Nett weight of Lantern, 26 lbs.

Note : This lantern can be fitted with 3-pin B.C. holder to take 125 watt Black Bulb Ultra Violet Lamp at 7/6 Nett extra

Cancelled



Pattern 46 B

Telephone :  
Temple Bar 7464 (6 lines).

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**FLORAL STREET, COVENT GARDEN, W.C.2**

Telegraphic Address :  
Spotlite, Rand, London.



# STRAND COLOUR MEDIUMS

## Colour Chart Supplied on Request

NOTE.—For three-colour mixing, Nos. 6 Red, 39 Green, and 19 Blue are required. If double wattage is used on the blue, then No. 20 Blue should be substituted.

1. Yellow	13. Magenta	25. Purple
3. Straw	36. Surprise Pink (Lavender)	26. Mauve
2. Light Amber	14. Ruby	29. Heavy Frost
2A. Light Medium Amber	15. Peacock Blue	31. Light Frost
4. Medium Amber	16. Moonlight Blue	27A. Samoiloff Red
33. Deep Amber	17. Steel Blue	29A. Samoiloff Blue
5. Light Orange	18. Middle Blue	38A. Samoiloff Mauve
5A. Deep Orange	32. Medium Blue	50. Pale Yellow
6. Fire Red	19. Dark Blue	51. Gold Tint
7. Light Rose	20. Deep Blue	52. Pale Gold
8. Salmon	21. Pea Green	53. Pale Salmon
9. Middle Salmon	22. Moss Green	54. Pale Rose
10. Middle Rose	23. Light Green	55. Chocolate Tint
11. Dark Pink	24. Dark Green	56. Pale Chocolate
12. Deep Rose	39. Emerald Green	60. Grey

## GELATINE (BRITISH MANUFACTURE)

All colours except 5A (22 in. x 17½ in.)	...	...	...	...	...	7s. 6d. Nett per doz. sheets
Frosts (22 in. x 17½ in.)	...	...	...	...	...	11s. 0d. " " "

*Special prices for large quantities. Quantities of one dozen and upwards postage free.*

## "CHROMOID" (BRITISH MANUFACTURE)

These mediums are particularly suitable for exterior work in floodlights, decorative features, etc. The colours are practically fast and do not have to be replaced as often as gelatines. They are far stronger mechanically, and, in addition, are impervious to water. They comply with the regulations of the London, Middlesex, Surrey and other County Councils.

Colours are as listed above but numbers are prefixed with the letter C, e.g., Fire Red in Gelatine is No. 6, in Chromoid No. C6.

All Colours and Frosts except 50, 51, 53, 55, 56, 60 (24 in. x 20 in.)	...	3/9 per Sheet
" " " " " " " " " " " " (48 in. x 20 in.)	...	7/6 per Double Sheet

Telephone :  
Temple Bar 7464 (6 lines).

**STRAND ELECTRIC  
AND ENGINEERING CO., LTD.**

Telegraphic Address :  
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**FLORAL STREET, COVENT GARDEN, W.C.2**



# STRAND COLOUR MEDIUMS

## INCANDESCENT LAMP LACQUER

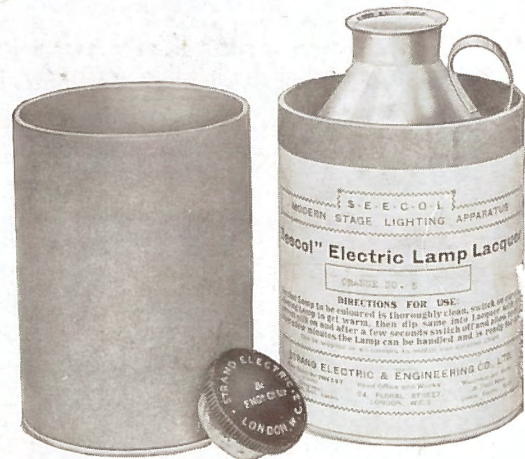
NOT SUITABLE FOR GAS FILLED LAMPS

SHADES AS COLOUR MEDIUMS

PRICE ... 4/- per pint Nett

(Inclusive of Dipping Carton)

SPECIAL SHADES BLENDED TO ORDER



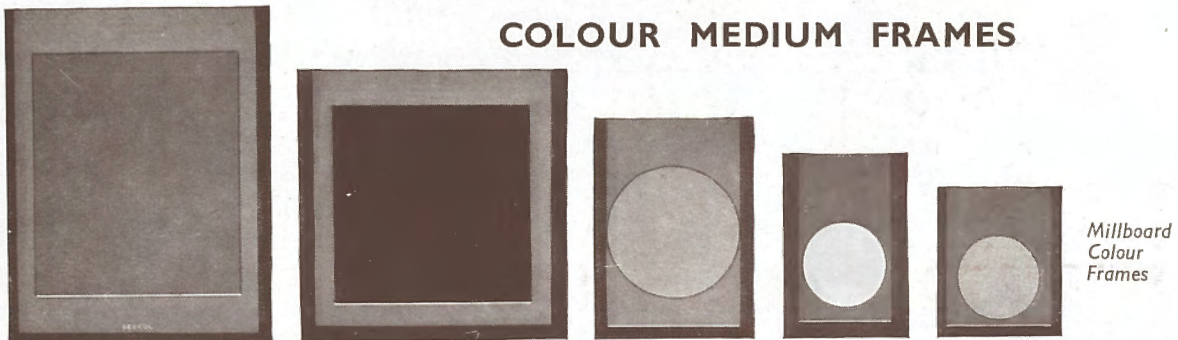
## OPAQUE LAMP LACQUER FOR OUTDOOR USE

NOT SUITABLE FOR GAS FILLED LAMPS

SUPPLIED IN THE FOLLOWING COLOURS

1091 Amber	760 Red	} 8/6 per Pint Nett
969 Orange	1117 Pink	
939 Green	979 White	
893 Blue		

## COLOUR MEDIUM FRAMES



	Pattern	Size	PRICE	
L 222 "FLOOD" ...	No. 37	15" x 11 3/4"	14/6 per doz.	
L 61 "SUNRAY" ...	No. 30, 60, 50A...	11 3/4" x 11 3/4"	10/-	Strongly made in
L 85 STANDARD FOCUS	Nos. 22 & 23	10 3/4" x 7 5/8"	8/3	Linen Bound Mill-
L 225 1000 watt SPOT	No. 43	8 3/4" x 7 5/8"	8/3	board with one
L 80 500 watt SPOT	No. 44	6" x 6"	6/9	end open to Slide
L 76 MINIATURE SPOT...	No. 45	5 5/8" x 5 1/4"	5/6	in Colour medium
L 73 FLOAT BABY SPOT	No. 27	4 1/4" x 4 1/4"	4/6	

(Exclusive of Gelatines)

Special Sizes made to order.

Telephone :  
Temple Bar 7464 (6 lines).

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AND ENGINEERING CO., LTD.**  
**FLORAL STREET, COVENT GARDEN, W.C.2**

Telegraphic Address :  
Spotlite, Rand, London.



# STRAND ACCESSORIES

## HALF WATT TRAY

L 229 As illustration, aluminium castings, finished matt black. G.E.S. black china holder, carried in ring adjustments, provided to give vertical and axial adjustment for lamp filament. 5 in. diameter chromium-plated spherical reflector and adjustable cradle. Removable focussing knob under.

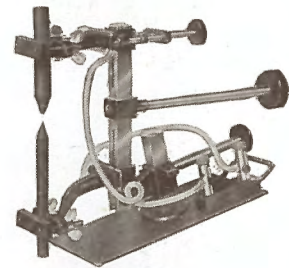
PRICE ... £1 10 0



## SPHERICAL REFLECTORS (Chromium Plated)

These are supplied separately, complete with the necessary cradles and adaptors, to fit lanterns supplied previous to October, 1935.

	PRICE	s.	d.	
L 230 6" diameter for 2000 watt Spot	17	3		each
L 231 5" diameter for Pattern 43	13	9		"
L 232 5" diameter for Pattern 44	13	9		"
L 233 3½" diameter for Pattern 45	7	3		"



## ARC LAMP

L 234 15/20 amp. 2-movement hand feed, carried on tray with removable focussing knob under. Rockbestos wiring to pair of terminals.

PRICE ... £4 17 6

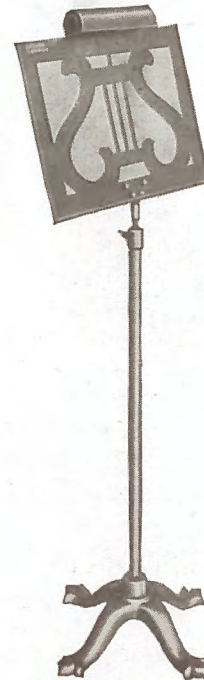


Cinema Pattern

## ORCHESTRA STANDS



Standard Pattern



Lyre Pattern

Made up of sheet metal, mounted on telescopic stand, with cast iron base.

L116 Cinema Pattern. Finished black, and fitted with two lampholders. Minimum height, 52 in. Maximum, 61 in. (Nett weight, 26 lbs.)	...	...	...	2	9	6	each
L117 Standard Pattern. Finished black, and fitted with lampholder. Minimum height, 51 in. Maximum, 75 in. (Nett weight, 19 lbs.)	...	...	...	1	12	6	"
L118 Lyre Pattern. Finished gilt, and fitted with two lampholders. Minimum height, 60 in. Maximum, 78 in. (Nett weight, 20 lbs.)	...	...	...	2	17	6	"

Telephone :  
Temple Bar 7464 (6 lines).

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AND ENGINEERING CO., LTD.**  
**FLORAL STREET, COVENT GARDEN, W.C.2**

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Spotlite, Rand, London.



# FLOOD and SPOTLIGHT STANDS

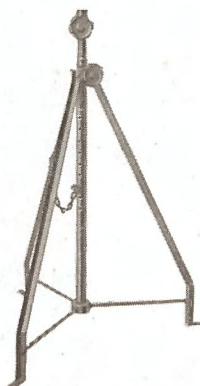
Wrought iron  $\frac{3}{4}$  in. barrel screwed into cast iron base plate as illustrated. Fitted with extending liner of  $\frac{3}{8}$  in. gas barrel with 3 in. diameter locking wheels and cable hook. Minimum height, 4 ft. 3 in. Maximum, 7 ft. 0 in.



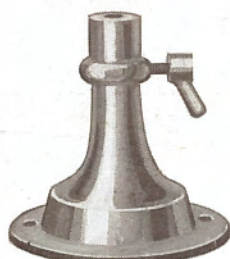
L 60

L 66

Telescopic Stands



L 111 Tripod Stand



L 112 Bench Base



L 113 Flange Plate Stand



L 79



L 114

		Each
		£ s. d.
L 60	Light pattern telescopic. (Weight, 28 lbs.) ...	1 5 0
	If fitted with castors, rubber-tyred ...	2 8 0
L 66	Heavy pattern telescopic. (Weight, 37 lbs.) (1 in. barrel, $\frac{1}{2}$ in. liner) ...	1 10 6
	If fitted with castors, rubber-tyred ...	2 13 6

L 111 Tripod stand, made up of 1 in. gas barrel and light angle iron, with  $\frac{1}{2}$  in. liner, 3 in. diameter locking wheels, and fitted with safety pin. Minimum height, 3 ft. 6 in. Maximum, 6 ft. 0 in. (Nett weight, 17 lbs.) ... 3 0 0

L 112 Heavy cast iron bench base with locking lever. Height, 8 in. (Nett weight, 7 lbs.) ... 0 7 6

L 113 Flange plate stand with locking wheels and 4 in. diameter base. Height, 6 in. (Nett weight, 2 $\frac{1}{2}$  lbs.) 0 4 0

L 79 Swivel arm bracket (extending 12 in.) ... 0 12 6

L 114 Knuckle arm bracket with two joints (extending to 18 in.) ... 1 13 6  
Extra joints ... 0 10 6

L 115 Theatrical dressing table standard, 12 in. high, with 6 in. diameter heavy cast base. B.C. holder, finished any colour ... 0 8 3

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# SPARE GLASS FOR STRAND LANTERNS

## SUNRAY SILVERED GLASS REFLECTORS

		£	s.	d.	
Footlight Types B and C, new pattern	...	0	6	0	each
Old pattern, issued before May, 1936	...	0	6	0	"
Type A I	...	0	12	0	"
Batten, B and C types	...	0	6	0	"
D type (D 200)	...	0	16	0	"
Standard ground row and pros. length, 1-piece	...	0	6	0	"
Cyclorama ground row, Type P 3-piece	...	0	6	0	per set.
Type 30.	Used in Pattern 30	0	18	9	each
" 35.	" " 60, 35, 55	0	18	9	"
" 49.	" " 49	1	10	0	"
" 49A. Four-piece.	" " 49A and 49B	1	15	0	"
" 56. Three-piece.	" " 56	2	2	0	"
" 59.	" " 59	1	10	0	"
" 38. Three-piece.	" " 38 and 37	1	19	6	"
" 46.	" " 46, 46A and 46B...	1	15	0	"
Complete set of pieces of Pattern 47	...	0	18	6	"
" " " " 48	...	1	17	6	"
10 in. diameter mirror for Pattern 50A and 50B	...	1	16	0	"
8 in. " " " Pattern 73	...	2	0	0	"
Type 31 "Sunray" Reflector for Pattern 41	...	0	15	0	"

## HEAT RESISTING FRONT GLASSES FOR OUTDOOR LANTERNS

		£	s.	d.	
Pattern 38	...	0	11	0	each
" 46. Circular domed heat resisting glass	...	1	9	6	"
" 50B. " " " " "	...	0	11	0	"
" 47. Square flat heat resisting glass	...	0	19	6	"
" 48. " " " " "	...	0	19	6	"
<b>Diffusing Glasses.</b>					
Spares for Pattern 50 A. Clear	...	0	2	0	"
" " " 50 B. "	...	0	2	6	"

## PLANO CONVEX LENSES

		£	s.	d.				£	s.	d.	
3 in. x 6 in. focus	...	0	5	0	each	8 in. x 13 in.	...	2	0	0	each
4½ in. x 6½ in. "	...	0	6	3	"	Heat resisting for use with Arcs.					
6 in. x 8 in. "	...	0	16	3	"	6 in. x 8 in.	...	2	5	0	"
6 in. x 9 in. "	...	0	15	0	"	6 in. x 9 in.	...	2	0	0	"
6 in. x 10 in. "	...	0	13	9	"	6 in. x 10 in.	...	1	18	6	"
6 in. x 12 in. "	...	0	13	9	"	6 in. x 9 in. Step Lens	...	0	15	0	"
5 in. x 9 in. focus diameter lenses for condensers (pair required), used in Patterns 51, 33, and 61.											
Single Lens	...	0	8	3	each						
Pair in jacket	...	1	17	6	"						

*Lens Prices subject to market fluctuations*

**STRAND ELECTRIC**  
AND ENGINEERING CO., LTD.

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**FLORAL STREET, COVENT GARDEN, W.C.2**



# PROJECTOR LAMPS

Listed on the following pages are some of the special lamps referred to in the catalogue. In addition to these complete stocks of all the standard lamps are held in the Sales Department.

**CLASS  
B I**



**ROUND BULB  
PROJECTOR**

These are suitable for use in focus lanterns such as Pattern 43B. They may be used at any angle except within 45° of vertical, cap upwards. Approximate life 800 hours.

Voltage	Watts	Maximum Dimensions			Type of Filament	Area of Filament	Cap	PRICE each
		Overall Length	Diam.	Filament Centre to Cap Contact				
100 to 130	100	m/m 130	m/m 80	m/m 75	Bunch	m/m 10 x 10	E.S.	£ s. d. 0 9 0
	250	133	95	75	"	8 x 11	"	0 17 6
	500	190	130	115	"	11 x 14	G.E.S.	1 3 0
	1000	190	130	115	"	18 x 23	"	1 10 0
200 to 260	100	130	80	75	Bunch	10 x 11	E.S.	0 9 0
	250	133	95	75	"	11 x 10	"	0 17 6
	500	190	130	115	"	15 x 15	G.E.S.	1 3 0
	1000	190	130	115	"	20 x 25	"	1 10 0

Pre-focus cap, if fitted to the 500, 1000, and 2000 watt lamps, 2s. 6d. extra.

**THE ABOVE PRICES ARE SUBJECT TO E.L.M.A. FLUCTUATIONS.**

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Temple Bar 7464 (6 lines).

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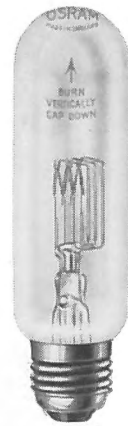
Telegraphic Address :  
Spoclite, Rand, London.



# PROJECTOR LAMPS

## CLASS A I TUBULAR PROJECTOR

These are suitable for use in Spotlights, such as Pattern 53, the concentrated filament giving greater optical efficiency and approximately 25 per cent. more light than Class B. The lamp may not be tilted, but must be burnt vertical cap down. Approximate life 100 hours.



Voltage	Watts	Maximum Dimensions			Type of Filament	Area of Filament	Cap	PRICE each
		Overall Length	Diam.	Filament Centre to Cap Contact				
100 and 110	100	m/m	m/m	m/m	Grid	m/m	B.C. or E.S. E.S. E.S.or G.E.S. G.E.S.	£ s. d.
	250	134	32	75		10 x 9		0 10 9
	500	134	64	75		11 x 10		1 0 0
	1000	134	64	75		13 x 16		1 4 0
		240	64	120		16 x 15		1 10 0
200 to 260	100	134	32	75	Grid	8 x 13	B.C. or E.S. E.S. E.S.or G.E.S. G.E.S.	0 10 9
	250	134	64	75		11 x 13		1 0 0
	500	134	64	75		15 x 18		1 4 0
	1000	240	64	120		15 x 23		1 10 0

## CINEMA STUDIO CLASS

This lamp, which is used in the Patterns 52A and B, may be used at any angle except within 45° of vertical, cap upwards. Approximate life 100 hours.



Voltage	Watts	Maximum Dimensions			Type of Filament	Area of Filament	Cap	PRICE each
		Overall Length	Diam.	Filament Centre to Cap Contact				
100-110 } 200-260 }	2000	m/m	m/m	m/m	Grid	m/m	G.E.S.	£ s. d.
		220	150	135		23 x 20		4 5 0

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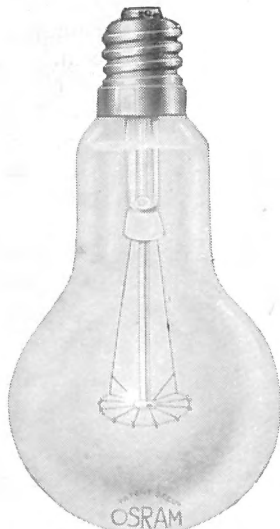


# GENERAL SERVICE LAMPS

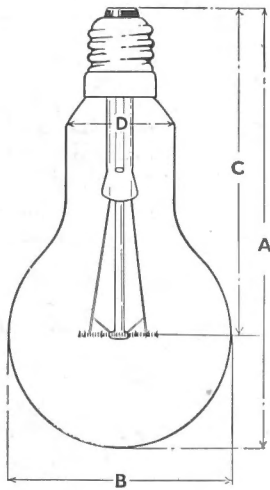
The Theatre Batten Lamps have been specially designed for use in Strand battens and floats. The filament position and bulb size is the same for all three wattages, ensuring that the reflector is always in focus.

The Angle Burning Lamps, which are the same price as the standard gasfilled, are fitted with a supported filament so that filament sag is eliminated, no matter at what angles the lamps may be burnt on the stage.

## CLEAR GASFILLED LAMPS



200 watts  
Osram Gasfilled Lamp



Dimensional Diagram  
150-1500 watts

Standard watts	Standard cap	Type of Lamp	PRICE per Lamp	
			100, 105, 110, 115, 120, 125, 130, 200, 210, 220, 230, 240, 250 and 260 Volts	
			s.	d.
60	ES	Theatre Batten ... ..	2	3
100			2	9
150			4	9
200	GES	Angle Burning ... ..	6	6
300			10	0
500			12	6
1000			16	0
1500			22	6

## DIMENSIONS AND LIGHT OUTPUT

Standard watts	Voltage range	Approx. lumens	Length		Bulb diameter		Cap contact to filament centre		Neck diameter	
			A		B		C		D	
			m/m	ins.	m/m	ins.	m/m	ins.	m/m	ins.
60	100-130 200-260	730 580								
100	100-130 200-260	1400 1160	135	5 <sup>5</sup> / <sub>16</sub>	75	2 <sup>1</sup> / <sub>16</sub>	120	4 <sup>3</sup> / <sub>8</sub>	40	1 <sup>1</sup> / <sub>2</sub>
150	100-130 200-260	2130 1950								
200	100-130 200-260	2960 } 2730 }	178±5.5	7	90±1	3 <sup>1</sup> / <sub>2</sub>	133±5	5 <sup>1</sup> / <sub>2</sub>	45±1	1 <sup>3</sup> / <sub>8</sub>
300	100-130 200-260	4770 } 4380 }	233±7	9 <sup>3</sup> / <sub>8</sub>	110±1.5	4 <sup>5</sup> / <sub>16</sub>	178±6	7	50±1	1 <sup>1</sup> / <sub>16</sub>
500	100-130 200-260	8700 } 7920 }	267±8	10 <sup>1</sup> / <sub>2</sub>	130±1.5	5 <sup>3</sup> / <sub>8</sub>	202±7	7 <sup>1</sup> / <sub>16</sub>	52±1	2
1000	100-130 200-260	19300 } 17900 }	300±9	11 <sup>3</sup> / <sub>8</sub>	150±1.5	5 <sup>7</sup> / <sub>8</sub>	225±8	8 <sup>7</sup> / <sub>8</sub>	55±1	2 <sup>3</sup> / <sub>16</sub>
1500	100-130 200-260	30300 } 28700 }	335±9	13 <sup>1</sup> / <sub>4</sub>	70±1.5	6 <sup>1</sup> / <sub>16</sub>	250±8	9 <sup>1</sup> / <sub>16</sub>	60±1	2 <sup>3</sup> / <sub>8</sub>

- " Osira " 400 watt Street Lighting Lamp, for voltages from 200-250, 50 cycles ... .. £2 0 0
- " Philora " 125 watt Black Bulb U V lamp ... .. £2 12 6

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# ARC LAMP CARBONS

Listed below are the carbons recommended for use in the arc lanterns shown on pages 40-44. In addition, Strand Electric are distributors for "Columbia" and "Kinarko" Kinematograph Carbons.

## "SHIP" STAGE ARC CARBONS (D.C.)

Amperes	Diam. of Positive	Diam. of Negative	Arc Volts	Burning Rate m/m per hour		PRICES Per Hundred 6 in.	
				Pos.	Neg.	Pos.	Neg.
20	14 m/m	10 m/m	48	39	36	30/-	19/-
25	15 m/m	11 m/m	48	33	30	33/-	23/-
30	16 m/m	11 m/m	50	35	36	34/-	29/-
40	18 m/m	12 m/m	50	40	40	45/-	30/-

Up to 25 amps. use "Ship" Stage Arc (S.A.), Positive No. 50 Cored (but not copper-coated) with Ship Stage Arc (S.A.), Negative No. 50 Solid (not copper-coated). For 30 and 40 amps. the negative is a C.D.N. No. 19.

From 50 to 120 amps. use "Ship" Stage Arc Positive No. 50 Cored (not copper-coated) with Kino No. 6 negative which is cored and copper-coated.

50	20 m/m	8 m/m	52	66	69	45/-	25/-
60	20 m/m	10 m/m	52	54	57	53/-	30/-
80	22 m/m	11 m/m	52	—	—	63/-	32/-
100	25 m/m	12 m/m	54	—	—	87/-	34/-
120	28 m/m	14 m/m	56	—	—	105/-	38/-

## "SHIP" WHITE FLAME CARBONS (A.C.)

Amperes	Diameter	Arc Volts	PRICES Per Hundred	
			4½ in.	6 in.
"Ship" White Flame No. 61 carbons for A.C. projection.				
15-20	... 10 m/m	..... 25-28	..... 16/3	..... 21/6
20-25	... 11 m/m	..... 25-28	..... 20/-	..... 26/6
25-30	... 12 m/m	..... 25-28	..... 22/3	..... 29/6
30-35	... 13 m/m	..... 25-28	..... 24/9	..... 33/-
35-40	... 14 m/m	..... 25-28	..... 28/3	..... 37/6
40-60	... 16 m/m	..... 30-35	..... 33/9	..... 45/-
60-75	... 20 m/m	..... 30-35	..... 52/6	..... 70/-
75-100	... 22 m/m	..... 30-35	..... 63/9	..... 85/-

The same diameter carbon is used in both the upper and lower positions for A.C. work. Sometimes better results are obtained by using a carbon 1 m/m less in diameter in the lower position, as only one crater is used for projection work.

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## STRAND SIGNS

The application of Electric Illumination to Advertising has provided the most striking advance in the history of publicity. Illuminated Publicity consists to-day of—

Neon Signs and Displays

Electric Lamp Signs

Floodlighting

Electric Window, Fascia, and Box Signs

Acetate Letters for Canopy Display,

etc., and

SPECIAL STRAND PATENTED PRODUCTS, such as SuNeon,

Architectural Neon, and Architectural Tube Lamp Signs



Example of a Strand Neon Display at Tivoli Cinema, London

### NEON SIGNS AND DISPLAYS

Comprising glass tubes of various diameters, filled with Neon and other rare gases, which by a high voltage electrical current discharged within are brilliantly illuminated in colours. These coloured tubes may take the form of letters mounted on wood or other suitable backings, or be fashioned in any type of design or device. The chief advantage of Neon signs is their exceptional brilliancy and low running cost.

### SUNEON (STRAND PATENT)

The SuNeon is an interesting and effective innovation in Neon design which is now being largely used for theatre and commercial displays.

The front of each letter is faced with a specially designed silvered reflector, which places this sign in the category of a first-class DAYLIGHT SIGN.

Twenty-four hours' publicity can be assured when this form of display is selected.

The principle of this Daylight Letter has also been applied to the Bulb Lamp Sign with gratifying results.

### NEON LETTERS

are supplied not only on hard wood backing letters or the patented suNeon surface, but can be offered on metal, such as Staybrite or Cellulosed Enamel Trough Section Backings. The above illustration is an example in which the metal trough Neon Letter has been used.



SuNeon principle applied to a Lamp Letter Sign at Palace Theatre, London

Flashing Effects can be produced with any Strand Sign if desired

### HIRE SERVICE

The STRAND SIGN HIRE DEPARTMENT is now in a position to supply on hire for short or long periods any of the above types. Special devices in Neon and Lamps are also available. Enquiries are invited. Sketches, with estimates, submitted without obligation.

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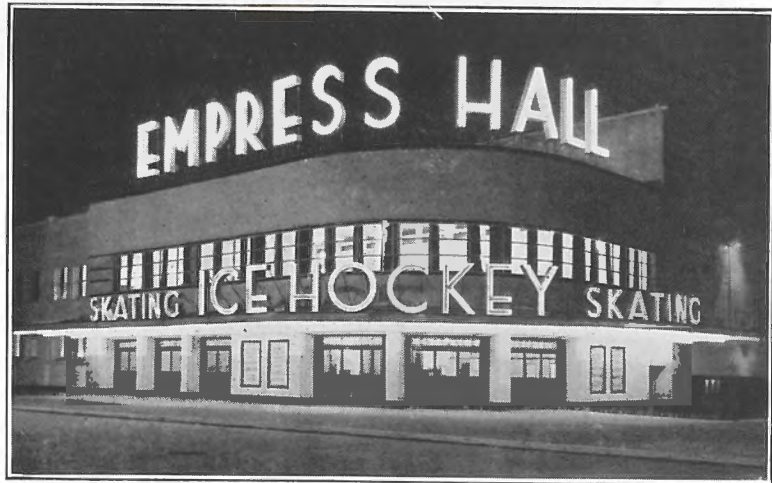
**FLORAL STREET, COVENT GARDEN, W.C.2.**



DINING RECEPTION  
 Reception DESK

# STRAND SIGNS

STRIKING EXAMPLES OF A SUNEON DISPLAY



Day and Night Effect of a Strand SuNeon Display.  
 Left: Day View of London Hippodrome. Right: Night View of Empress Hall, Earl's Court, London.

## LAMP LETTERS

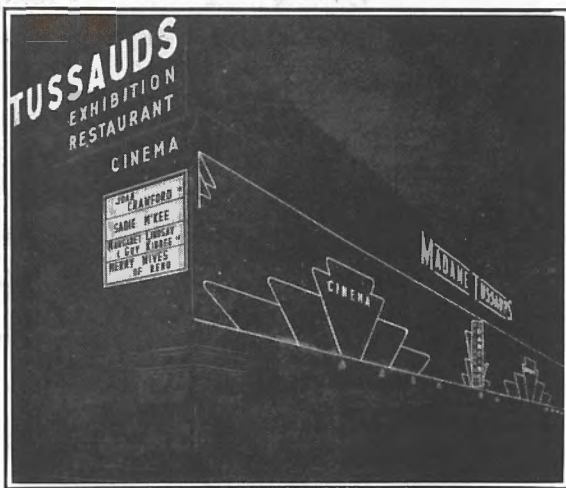
The variety of types of Sign Letters now available, either for sale or hire, assures complete satisfaction under any circumstances or conditions. But although Neon has many advantages, there are instances where the Bulb Lamp Letter can easily be the most effective and have the greatest publicity value.

A sign expert is always available to advise you which of the Strand Products will be the most efficient, taking into consideration your local conditions.

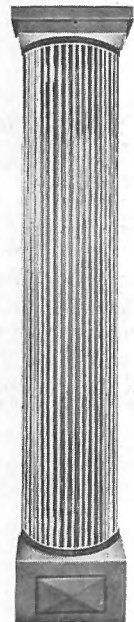
## ARCHITECTURAL NEON (STRAND PATENT)

Has been designed to give an enhanced illuminating effect on more architectural lines, whilst obviating unsightliness by completely concealing the accessories with protective covers of solid crystal rods, possessing considerable mechanical strength.

## INTERCHANGEABLE ARCHITECTURAL NEON LETTER SIGNS



Mme. Tussauds, London.



Architectural Neon or Tube Lamp Unit.

This new principle is also adapted with marked success for interchangeable signs for use with silhouette letters or cut out stencils.

Strand Neon Display with interchangeable Architectural Neon Letter Sign at end of building.

All Neon Tubes with high tension equipment are entirely concealed by bank of heavy glass rods.

Effect is a background of even, exceptionally brilliant light, with clearly defined letters which can be changed in the minimum of time.

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Telegraphic Address : Spotlice, Rand, London.



# STRAND SIGNS

## DIRECTIONAL NOTICE SIGNS (Illuminated)

## CRYSTALITE SIGNS



Surface Mounting. Lettered  
Glass ... .. 17/9  
Surface Stencil. Backed Opal 18/9  
Flush mounting. Lettered  
glass ... .. 24/6  
Flush mounting. Stencil  
backed opal ... .. 22/6  
*All Prices excluding Lamps and Lampholders*



Surface mounting. Lettered  
glass ... ..  
Surface stencil. Backed  
opal ... ..  
Flush mounting ... ..  
Flush stencil ... ..  
*Prices on application*

## CRYSTALITE EXIT SIGNS



Single- or double-sided circular  
frame. Illuminated from two  
edges. Finished bronze or chro-  
mium, etc.  
*Prices on application*  
Please state if two circuits are  
required.

The standard colour of lettering is White, but coloured (Red, Green, etc.) can be supplied if desired. Engraved designs can be incorporated. Sketches and prices submitted for special signs.

These directional signs are strongly constructed of rustless metal. Finished black or bronze cellulose enamel. White interiors. Fronts fitted with lettered glass, or metal stencils backed white opal.

Standard 7 in. letters.

Conforming with requirements of the Licensing Authorities.

### Special Designs

*Sketches and Prices on application*

Exit Signs can also be supplied for gas illumination.

These signs are illuminated by one or more tubular lamps which are concealed in the frame supporting the glass panel.

The light is projected through the edge of the glass, illuminating the deeply engraved letters in an attractive manner.

Single- or double-sided.

Finished in satin brass, cellulose bronze, oxydised copper, or silver. Also chromium.



Circular frame. Illuminated from one edge, supported by chains and ceiling plates.



Moulded frame. Rigid bracket fixing. Illuminated from one edge.



Circular frame (rigid fixing to ceiling). Illuminated from one edge.



Moulded frame. Supported by bracket. Can be supplied without metal-bound glass edges.

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FLORAL STREET, COVENT GARDEN, W.C.2

Sign 12x9" GENTS - £5-15-0  
Bracket - £1-5-0  
Lamps 6-0  
£7-6-0



# HIRE CHARGES

Scheduled below are the hire prices for standard apparatus listed in the "Theatrical Lighting" catalogue. The apparatus is hired complete and ready to work, and is subject to the conditions of hire set out on page 120.

A suitable number of spare lamps are included in each consignment.

THESE PRICES ARE FOR A PERIOD OF ONE WEEK OR PART THEREOF, AND ARE SUBJECT TO 10 PER CENT. REDUCTION FOR THE FIFTH WEEK AND THEREAFTER.

## A. FOOTLIGHTS and BATTENS

SUNRAY MAGAZINE FOOTLIGHT B TYPE (compartments at 7 in. centres, supplied in 6 ft. sections, three or four colours).

With set of gelatine colours in metal frames, up to 50 ft. tails with plug connectors, with 60 or 100 watt Theatre Batten Lamps.

1/- per compartment.

With 150 watt Lamps, 1/3 per compartment.

SUNRAY MAGAZINE BATTEN B TYPE (compartments at 7 in. centres, supplied in 6 ft. sections, three or four colours).

With set of gelatine colours in metal frames, up to 50 ft. tails with plug connectors. Complete with chain bridles and suitable length of barrel. With 60 or 100 watt Theatre Batten Lamps.

1/- per compartment.

With 150 watt Lamps, 1/3 per compartment.

### OPEN TYPE FOOTLIGHTS

Wired for three circuits, lampholders at 4 in. centres, up to 50 ft. tails with plug connectors.

PRICE (exclusive of Lamps) ... 1/- per foot

40 watt Vacuum B.C. Lamps (dipped colours) for above.

4/- per doz.

### OPEN TYPE BATTENS

Wired for three circuits, lampholders at 4 in. centres, up to 50 ft. tails with plug connectors, and chain suspensions.

PRICE (exclusive of Lamps) ... 1/- per foot

40 watt Vacuum B.C. Lamps (dipped colours) for above.

4/- per doz.

## B. STAGE FLOODS

### PATTERN 30 500 WATT MEDIUM ANGLE STAGE FLOOD

Supplied with six gelatine colours in millboard frames, light telescopic stand (if required), up to 50 ft. tails with plug connectors, and 500 watt General Service Lamp.

6/6 each

*The above prices are based on single units. Special inclusive quotations for quantities will be furnished on application.*

Telephone :  
Temple Bar 7464 (6 lines).

**STRAND ELECTRIC**  
**AND ENGINEERING CO., LTD.**  
**FLORAL STREET, COVENT GARDEN, W.C.2**

Telegraphic Address :  
Spotlite, Rand, London.



**WEEKLY HIRE CHARGES—continued****PATTERN 60 500 WATT WIDE ANGLE STAGE FLOOD**

Complete as above.

6/6 each

**PATTERN 49 1000 WATT MEDIUM ANGLE STAGE FLOOD**

Supplied with three gelatine colours in metal frames, heavy telescopic stand (if required) up to 50 ft. tails with plug connectors, and 1000 watt General Service Lamp.

7/6 each

**PATTERN 49A 1000 WATT WIDE ANGLE STAGE FLOOD**

Complete as above.

7/6 each

**PATTERN 56 1000 WATT ACTING AREA LANTERN, NARROW ANGLE FLOOD**

Supplied with two gelatine colours in metal frames, barrel clamp (if required) up to 50 ft. tails with plug connectors, and 1000 watt General Service Lamp.

7/6 each

**PATTERN 59 1000 WATT MEDIUM ANGLE VERTICAL FLOOD (17 in. SUNRAY)**

Supplied complete as above.

7/6 each

**PATTERN 35 1000 WATT ARENA WIDE ANGLE FLOOD**

Supplied complete as above.

7/6 each

**TRIPLE 500 WATT WING FLOOD**

Supplied with six gelatine colours in millboard frames, up to 50 ft. tails with plug connectors, 500 watt General Service Lamp.

£1 0 0 each

**TRIPLE 1000 WATT WING FLOOD**

Supplied with six gelatine colours in metal frames, up to 50 ft. tails with plug connectors, 1000 watt General Service Lamp.

£1 2 6 each

**PHOTO FLOOD**

Complete with lamp and flex.

10/- each

**C. FOCUS LANTERNS and SPOTLIGHTS****PATTERN 27 250 WATT FLOAT SPOT**

Supplied with three gelatine colours in millboard frames, up to 50 ft tails, and 250 watt Class B Projector Lamp.

3/6 each

**PATTERN 45 250 WATT MINIATURE SPOT**

Supplied with three gelatine colours in millboard frames up to 50 ft. tails, and 250 watt Class B Projector Lamp, and spherical chromium Reflector.

3/6 each

*The above prices are based on single units. Special inclusive quotations for quantities will be furnished on application.*



**WEEKLY HIRE CHARGES**—*continued***PATTERN 44 500 WATT BABY SPOT**

Supplied with six gelatine colours in millboard frames, up to 50 ft. tails with plug connectors, spherical chromium-plated reflector, light pattern telescopic stand or barrel clamp (if required), and 500 watt Class B.I Projector Lamp.  
6/6 each

**PATTERN 43B 1000 WATT STAGE SPOT**

Complete as above, but with 1000 watt Class B.I Projector Lamp.  
7/6 each  
Class A.I Tubular Lamp, 1/- extra

**PATTERN 43A 1000 WATT BATTEN SPOT**

Complete as above, but with barrel clamp.  
8/6 each

**PATTERN 52A 2000 WATT FOCUS FLOOD**

Complete with six gelatine colours in metal frames, up to 50 ft. tails with plug connectors, spherical chromium-plated reflector, cradle and heavy cast base, and 2000 watt Cinema Studio Lamp.  
£1 5 0 each

**PATTERN 52B 2000 WATT SPOT**

As above, but with heavy telescopic stand.  
£1 5 0 each

**PATTERN 50A INDOOR 1000 WATT PAGEANT LANTERN**

Complete with six gelatine colours in millboard colour frames, diffusing screen, up to 50 ft. tails with plug connectors, heavy cast base, and 1000 watt Class B.I Projector Lamp.  
9/- each  
Class A.I Tubular Lamp, 1/- extra

**PATTERN 53 1000 WATT DOUBLE FOCUS SPOT**

Supplied with six gelatine colours in metal frames, up to 50 ft. tails with plug connectors, heavy telescopic stand, and 1000 watt Class A.I Projector Lamp with pre-focus cap.  
15/- each

**PATTERN 63 1000 WATT STELMAR SPOTLIGHT**

Supplied with six gelatine colours in millboard frames, up to 50 ft. tails with plug connectors, special tripod stand, and 1000 watt Class A.I Projector Lamp.  
£1 1 0 each

**PATTERN 73 1000 WATT MIRROR SPOT**

Supplied with six gelatine colours in frames, up to 50 ft. tails with plug connectors, heavy pattern telescopic stand, or barrel clamp if required, and 1000 watt Class B.I or A.I Projector Lamp.  
12/6 each

**PATTERN 81 36 WATT LOW VOLTAGE SPOT**

Complete with three gelatine colours in frames, up to 50 ft. tails, transformer, and 12 volt 36 watt Lamp.  
Indoor 5/- each  
Outdoor 6/6 "

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**FLORAL STREET, COVENT GARDEN, W.C.2**



**WEEKLY HIRE CHARGES—continued****SPOTTING ATTACHMENTS**

For Patterns Nos. 43, 43B, and 44.

2/6 each

**RAINBOW AND COLOUR WHEELS**

Complete with assorted coloured gelatines, to fit Patterns Nos. 43, 43B, 63, 23A, 22, 42, and 44.

1/6 each

**FLICKER WHEELS**

To fit Patterns Nos. 43, 43B, 63, 23A, 22, 42, and 44.

1/- each

**IRIS DIAPHRAGMS**

To fit Patterns Nos. 43, 43B, 63, 23A, 22, 42.

2/6 each

**AUTOMATIC COLOUR WHEELS**

Complete with one battery, and 50 ft. of lead and switch.

5/- each

**MIRROR BALLS**

12 in. Mosaic Pattern, complete with clockwork rotator.

10/- each

Ditto, but with electric motor.

15/- each

**D. ARC SPOTLIGHTS****PATTERN 23A 15/20 AMP. ARC SPOT**

Supplied with six gelatine colours in millboard frames, heavy telescopic stand, arc lamp, one pair of carbons, and up to 25 ft. lead.

7/6 each

Necessary Resistance and Arc Plug Board.

5/-

**PATTERN 22 FRONT OF HOUSE SPOTTING ARC, 30/40 AMPS.**

Supplied complete as above.

10/- each

Necessary Resistance and Arc Plug Board.

5/-

*The above prices are based on single units. Special inclusive quotations for quantities will be furnished on application.*

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**WEEKLY HIRE CHARGES—continued**

PATTERN 42 COMBINED SPOTTING AND OPTICAL EFFECTS LANTERN, 30/40 AMPS.  
Supplied complete as above.

10/6 each

Necessary Resistance and Arc Plug Board. 5/-

**E. CYCLORAMA LIGHTING**

PATTERN 55 CIRCULAR 500 WATT CYCLORAMA FLOOD

Supplied with two gelatine colours in metal frames, barrel clamp (if required) up to 50 ft. tails with plug connectors, and 500 watt General Service Lamp.

6/6 each

PATTERN 49B SQUARE 1000 WATT CYCLORAMA FLOOD

Supplied complete as above, but with 1000 watt General Service Lamp.

7/6 each

GROUND ROWS (compartments at 6 in. centres, supplied in 6 ft. sections, three or four colour).  
Supplied with gelatine colours in frames, up to 50 ft. tails with plug connectors, with 60 or 100 watt Theatre Batten Type Lamps.

1/- per compartment

Ditto, but with 150 watt Lamps. 1/3 per compartment

**F. "EFFECTS" LIGHTING**

PATTERN 51 1000 WATT OPTICAL EFFECTS PROJECTOR

Supplied with spherical chromium-plated reflector, heavy pattern telescopic stand, or barrel clamps if required, up to 50 ft. tails with plug connectors, and 1000 watt Class B.1 Projector Lamp.

9/- each

Ditto, but with 1000 watt A.1 Projector Lamp. 10/- each

PATTERN 33 OPTICAL EFFECTS PROJECTOR, 20/40 AMPS.

Supplied complete with heavy telescopic stand, arc lamp, and up to 25 ft. lead.

10/- each

Necessary Resistance and Arc Plug Board. 5/-

*The above prices are based on single units. Special inclusive quotations for quantities will be furnished on application.*

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**WEEKLY HIRE CHARGES—continued****OPTICAL "EFFECTS" ATTACHMENTS**

Fleecy Clouds. Storm Clouds. Rain. Snow. Waterfall. Running Water. Smoke and Flames. Sand Storm. Rough Sea Wave. Water Ripple. Jazz Colour. Dissolving Colours.

15/- each

**TURNTABLE FRONT AND SLIDE CARRIER**

5/- each

*These Effects are supplied with Objective Lens. The length of throw and size of picture required should be stated when ordering.*

**ULTRA-VIOLET RAY GLASS FILTERS (HEAT RESISTING)**

Mounted in sheet metal frame, to suit standard focus runners.

7/6 each

**PATTERN 43C ULTRA VIOLET SPOTLIGHT**

Lantern as 43B but fitted with special 3 pin BC holder.

Supplied complete with Black Bulb 125 watt Lamp and Choke.

£1 0 0

**PATTERN 46C OUTDOOR ULTRA VIOLET PROJECTOR**

Lantern as 46B but fitted with special 3 pin BC holder.

Supplied complete with Black Bulb 125 watt Lamp and Choke.

£1 1 0

**F (contd.)****MISCELLANEOUS "EFFECTS"****MOTOR DRIVEN**

Motor Car. Motor Cycle. 5/- to 10/- each

Cane Wind Machine. 10/- each

Aeroplane Effect. 7/6 each

Electric Sirens, ranging from 3/6 to 5/- each.

The above Effects are fitted with Universal Motors which can be used on A.C./D.C. and on different voltages.

**HAND DRIVEN**

Surf. 5/- each

Rain Box. 2/6 each

Wind. 5/- each

Thunder Sheet. 1/6 each

*The above prices are based on single units. Special inclusive quotations for quantities will be furnished on application.*

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**WEEKLY HIRE CHARGES—continued****ELECTRIC BLOWERS**

Prices ranging from 5/6 to £2 2 0 each

**ILLUMINATED FOUNTAINS (UNIVERSAL)**

Various patterns and sizes.

From £1 1 0 each

**PLUGBOARDS**

10 amp. Plug, Switch, and Fuse Boards.

6d. per way

**H. DIMMERS and DIMMER BOARDS****DIMMERS (SLIDING PATTERN)**

Up to 500 watts.	2/6 each
Up to 1000 watts.	3/6 each
Up to 1500 watts.	6/- each
Up to 2000 watts.	7/6 each
Up to 3000 watts.	15/- each

**LIQUID DIMMERS UP TO 40 AMPS.**

In framework, with operating handles and complete with special salts.

From 10/- per way

**PORTABLE TEAK DIMMER BOARDS**

Up to 500 watts.	2/6 per way
Up to 1000 watts.	3/6 per way

**NEW TYPE INTERLOCKING PORTABLE DIMMER BANKS**

6-way, 1000 watt.	£1 10 0 each
12-way, 1000 watt.	£2 2 0 each

**J. OUTDOOR FLOODLIGHTING****PATTERN 38 500 WATT CIRCULAR WIDE ANGLE OUTDOOR FLOOD**

Complete with 500 watt General Service Lamp and domed heat-resisting front glass.

6/6 each

"Chromoid" Colour Mediums for above. 2/- each

*The above prices are based on single units. Special inclusive quotations for quantities will be furnished on application.*



## WEEKLY HIRE CHARGES—*continued*

### PATTERN 46 1000 WATT MEDIUM ANGLE OUTDOOR FLOOD

Complete with 1000 watt General Service Lamp, domed heat-resisting glass, bench base or flange plate stand.

8/6 each

“Chromoid” Colour Mediums for above. 3/9 each

### PATTERN 46A 1000 WATT FOCUSING MEDIUM ANGLE OUTDOOR FLOOD

As above, but to take Class B.I 1000 watt Projector Lamp.

8/6 each

### PATTERN 47 SQUARE WIDE ANGLE OUTDOOR FLOOD

Complete with heat-resisting front glass and 500 watt General Service Lamp.

6/6 each

Ditto, but complete with 1000 watt General Service Lamp.

7/6 each

“Chromoid” Colour Medium for above.

3/9 each

### PATTERN 48 1000 WATT WIDE ANGLE SQUARE OUTDOOR FLOOD

Complete with heat-resisting front glass and 1000 watt General Service Lamp.

8/6 each

“Chromoid” Colour Medium for above.

3/9 each

### PATTERN 50B OUTDOOR PAGEANT LANTERN, FOCUSING NARROW ANGLE

Supplied with heavy bench base or flange plate stand, heat-resisting front glass, with 1000 watt Class B.I Projector Lamp.

9/6 each

Ditto, but with Class A.I Projector Lamp.

10/6 each

### ORCHESTRA STANDS

Standard Pattern, complete with 15 ft. lead and plug connectors.

1/6 each

Ditto, but complete with Lamp.

2/- each

### FAIRYLAND STRIPLITE

HOLDERS at various centres, on cab-tyre flex, complete with Coloured Lamp.

6d. per holder

*The above prices are based on single units. Special inclusive quotations for quantities will be furnished on application.*



# EXPORT PACKING PARTICULARS

As a convenience to Customers, the approximate weights of some of the more representative types of Strand Lanterns packed for export are set out below.

1	Universal Stage Focussing Lantern, Pattern No. 23A. Gross 0-1-20 ... .. 3½ cubic feet ... ..	f.o.b. London
4	Ditto. Gross 1-2-0 ... .. 12 cubic feet ... ..	f.o.b. London
1	Sunray Triple Flood (less Stand), 500 watt size. Gross 0-3-14 ... .. 16 cubic feet ... ..	f.o.b. London
1	Stand for above. Gross 0-1-0 ... .. 1 cubic foot ... ..	f.o.b. London
2	Sunray Triple Floods (less Stand), 500 watt size. Gross 1-3-0 ... .. 17 cubic feet ... ..	f.o.b. London
2	Stands for above. Gross 0-1-20 ... .. 2 cubic feet ... ..	f.o.b. London
	Note.—Stands to be dismantled.	
2	Sunray Wing Floods with Reflectors, Pattern Nos. 49, 49A, and 49B. Gross 0-3-0 ... .. 14 cubic feet ... ..	f.o.b. London
	More than two per case is not advisable.	
1	Arena Flood, Pattern No. 35. Gross 0-1-14 ... .. 7 cubic feet ... ..	f.o.b. London
4	Ditto. Gross 1-0-10 ... .. 17 cubic feet ... ..	f.o.b. London
2	Pattern No. 32 Baby Sunrays. Gross 0-1-10 ... .. 2½ cubic feet ... ..	f.o.b. London
4	Ditto. Gross 0-3-0 ... .. 4 cubic feet ... ..	f.o.b. London
2	Sunray Lanterns, Pattern Nos. 30 and 60. Gross 0-2-0 ... .. 6 cubic feet ... ..	f.o.b. London
4	Ditto. Gross 0-3-14 ... .. 10 cubic feet ... ..	f.o.b. London
1	Pattern 44, 500 watt Spotlight. Gross 0-1-14 ... .. 3 cubic feet ... ..	f.o.b. London
2	Ditto. Gross 0-3-0 .. .. 4½ cubic feet ... ..	f.o.b. London
1	Pattern 43B or 51, Optical Effects Lantern. Gross 0-2-14 ... .. 4 cubic feet ... ..	f.o.b. London

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## EXPORT PACKING PARTICULARS—*continued*

2	Pattern 43B or 51, Optical Effects Lantern. Gross 1-1-0 ... .. 7 cubic feet ... .. f.o.b. London
1	Remote Colour Changing Spotlight, Pattern 43A. Gross 1-1-0 ... .. 6½ cubic feet ... .. f.o.b. London More than one per case is not advisable.
1	Pattern No. 45, Spotlight. Gross 0-1-14 ... .. 2 cubic feet ... .. f.o.b. London
2	Ditto. Gross 0-2-0 ... .. 4 cubic feet ... .. f.o.b. London
	Stage Batten, B or C type, complete length 12 ft. Gross 2-0-0 ... .. 28 cubic feet ... .. f.o.b. London
1	Set of 24 Glass Reflectors for 12 ft. Batten. Gross 0-3-0 ... .. 5 cubic feet ... .. f.o.b. London
1	Handy Hoist and— 3 1-way Pulleys 1 3-way Pulley 100 ft. ¼ in. Dia. Steel Rope 1 Set of Suspensions 1 Set of Chain Bridles Gross 2-0-0 ... .. 4 cubic feet ... .. f.o.b. London
1	Stage Footlight, B or C type, length 12 ft. (less glass). Gross 1-2-0 ... .. 15 cubic feet ... .. f.o.b. London
1	Set of 24 Glass Reflectors for above. Gross 0-2-0 ... .. 4 cubic feet ... .. f.o.b. London
1	Mirror Ball complete (medium size 12 in. diam.). Gross 0-1-0 ... .. 3½ cubic feet ... .. f.o.b. London
1	Ditto (large size 16 in. diam.). Gross 0-1-14 ... .. 6 cubic feet ... .. f.o.b. London
1	Optical Effects Lantern, Pattern No. 42. Gross 0-3-14 ... .. 5 cubic feet ... .. f.o.b. London
1	Optical Disc Effect in Aluminium Case (Circular Pattern, Clouds, etc.). Gross 0-1-14 ... .. 2½ cubic feet ... .. f.o.b. London
3	Ditto. Gross 0-3-0 ... .. 6½ cubic feet ... .. f.o.b. London
1	Optical Effect in Wood Case (Rectangular Pattern, Waves, etc.). Gross 0-1-14 ... .. 2 cubic feet ... .. f.o.b. London
6	Ditto. Gross 0-3-14 ... .. 7½ cubic feet ... .. f.o.b. London
1	Outdoor Flood, Pattern No. 38. Gross 0-2-0 ... .. 5 cubic feet ... .. f.o.b. London
2	Ditto. Gross 0-3-0 ... .. 9 cubic feet ... .. f.o.b. London

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## GENERAL SALE CONDITIONS

**PRICES.**—The quoted prices in this catalogue are based on those prevailing at time of going to press and are subject to market fluctuations.

No engagement can be guaranteed based on the prices quoted herein, but every endeavour will be made to execute orders subject to the provisions of the foregoing paragraph and to normal conditions prevailing both as regards labour and the supply of materials.

**ILLUSTRATIONS.**—The illustrations in this catalogue are reproduced from actual photographs of the apparatus, but from time to time the designs may be subject to alterations and improvements as the outcome of further research.

Technical data, such as light distribution curves, are drawn up under laboratory conditions, and are for the purpose of comparative reference between one lantern and another, and the Company cannot guarantee that these will be absolutely correct under working conditions.

Weights and measurements are approximate only.

**DELIVERY.**—Goods are well packed and despatched—Carriage Forward. No responsibility is accepted by this Company for damage in transit; any such damage should be reported and claims sent to carriers without delay.

Apparatus for which prices are quoted in this catalogue, with the exception of Footlights, Batters and Switchboards, are delivered free Great Britain, per GOODS TRAIN, for orders of £5 nett or over. Gelatines will be despatched post free on orders for one dozen sheets or over.

If goods required urgently are despatched by Passenger Train the extra cost will be charged.

Cases and packing charged at cost, and credited in full if returned, carriage paid, within seven days.

**LAMP SUPPLIES.**—All bulb electric lamps are supplied without engagement or guarantee. Claims for premature failure are passed on to the manufacturers of the lamps in question, who will determine whether credit will be allowed.

**ORDERS.**—In the customers' own interest, all verbal orders should be confirmed in writing, and such orders plainly marked "Confirmation."

## GENERAL HIRE CONDITIONS

**APPARATUS.**—While every endeavour will be made to supply lanterns described in this catalogue, abnormal demands on stocks held may render it necessary to substitute other designs. All apparatus remains the absolute property of this Company, the Hirer undertaking to return the said apparatus to the Company's Stores in good order and condition.

**LAMPS.**—The Company undertakes to maintain lamps in the case of electrical failure under normal working conditions, but the Hirer must accept full responsibility for mechanical damage.

**DELIVERY.**—All apparatus is delivered free in London's Theatre Land, which is defined as being within a circle of two miles radius of Leicester Square.

Apparatus delivered outside this area is charged at cost. All apparatus is suitably packed, where necessary. Such packing must be used by Hirer when returning apparatus.

No responsibility is accepted by this Company for damage in transit; any such damage should be reported, and claims sent to Carriers without delay.

**ORDERS.**—All orders for hire of apparatus *must* be confirmed in writing.

## TERMS OF PAYMENT

Ledger Accounts will be opened upon satisfactory references being furnished.

Accounts are payable one month from date of invoice. Cheques, Postal Orders, and Money Orders to be made payable to The Strand Electric & Engineering Co., Ltd., and crossed "Midland Bank, Ltd."

All hire charges are STRICTLY NETT, and are DUE and PAYABLE WEEKLY.

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**FLORAL STREET, COVENT GARDEN, W.C.2**



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