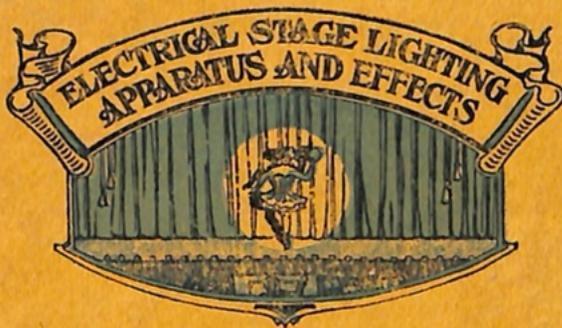


Chicago Stage Lighting Co.

(INCORPORATED)

Manufacturers of

Pioneers
in
the Art of
Stage
Lighting



Originators
of the
Modern
Spectacular
Lighting

Stereopticons, Accessories
and Other Projection
Apparatus

Catalog AA

LONG DISTANCE TELEPHONES

Main 1676

Main 2522

112 North La Salle Street, Chicago, Ill.

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GREETING

We take great pleasure in submitting to our patrons and prospective patrons our Catalog AA on Electrical Appliances for Theatrical and Exhibition purposes.

In this edition we have attempted to list only the goods most generally called for. This does not signify that we do not carry the less called for articles, therefore, write for our prices before trying elsewhere.

The officers and working force of this company are composed of individuals who have attained and served in the very highest capacity in their respective vocations, namely, the Electrical, Theatrical, Mechanical, Stereopticon and Optical lines, therefore we are in the best position to serve you by giving you the benefit of their highly specialized, practical and technical experiences.

We are pioneers and originators of the approved type of fireproof stage lamps and appliances that will pass the most rigid inspection laws. We are in a position to furnish everything electrical for the theatre or traveling show, whether amateur or professional. We also specialize in furnishing lighting equipments on rental for any kind of performance.

We kindly suggest to those wishing to get the latest ideas and best results on lighting and electrical effects to submit their plans and ideas to us for our suggestions. Wishing you a continued success and soliciting your patronage, we remain,

Respectfully yours,

CHICAGO STAGE LIGHTING CO., INC.

President
J. F. O'Connor

Secretary
Fred A. Ferdinandsen

Treasurer
Jos. O'Connor

Telephones
Main 1676 Main 2522

112 N. La Salle Street

Chicago, Illinois



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TERMS

Prices in this catalog are all F. O. B. our factory, Chicago, and do not include crating, expressage or postage, which will be charged at cost. Our terms are cash with all orders, except to parties of established credit, to whom we extend thirty days time. Unknown parties desiring credit must send satisfactory references with first order.

Payments must be made in express or postal money orders or in funds payable in Chicago. Currency sent by mail should be registered. Goods will be shipped by Express C. O. D. with the privilege of examination, providing a remittance sufficient to cover express charges both ways accompanies the order. If goods are returned to us, all money received in excess of express charges paid by us will be refunded.

We are not responsible for any failure on the part of the Postal, Express, or Railroad Company not making prompt and complete delivery, or for goods lost or broken in transit. Do not return goods without a written approval from us.

HOW TO ORDER

When ordering always write plainly your name, express and post-office address, name of town, county and state. When traveling give your route ahead with dates at each place. Always give shipping directions, whether by mail, express or freight. Goods shipped by Special Handling Parcel Post are handled by the postoffice with the same prompt delivery as given to letters or first class mail. When ordering goods to be sent by mail be sure to remit enough to cover mailing charges, otherwise we reserve the right to ship same by express. Always give page and catalog number and name of article desired.

When no shipping directions are given we will use our judgment and ship by the best possible way.

TELEGRAPHING

For the convenience and economy of those who wish to telegraph we recommend the use of our code words. For telegraph instructions, see page 77.

RENTAL TERMS

Read Carefully Before Ordering

We specialize in furnishing on rental for any period desired, Lighting Equipment for lighting up amateur or professional entertainments of any kind. Rental prices will be quoted upon the information as to what equipment is wanted, and as to the length of time same is desired. Rental charges are based on, from the time the equipment leaves our shipping room up to its return to our receiving room.

Parties desiring to rent our equipment, who have no satisfactory financial credit rating in the mercantile books, must make a cash deposit for the full value of the equipment rented, or furnish us with a written order from a bank or some responsible financial rated party or firm in which they guarantee to be held responsible for the full value and safe return of the equipment rented, and to pay for all accrued unpaid rental charges.

Parties renting, when placing order must pay all rental charges in advance, accept and comply with the following conditions, namely: 1st, to pay express charges both ways; 2nd, to pay for all damages, if any, done to the equipment from the time it leaves our shipping room up to its return to our receiving room, ordinary wear and tear excepted; 3rd, to pay for any incandescent globes returned broken or burnt out; 4th, to repack equipment in the same manner as received and return in the same shipping containers they were shipped in; 5th, to return the equipment promptly at the expiration of the rental period; 6th, to not hold us responsible for any incompetency on your part in not being able to handle or operate our equipment successfully, as only tested and perfect equipment is sent; 7th, to not hold us responsible for any failure on the part of the express company not making prompt and complete delivery, as our responsibility ceases after the express company has accepted shipment in ample time to make delivery.

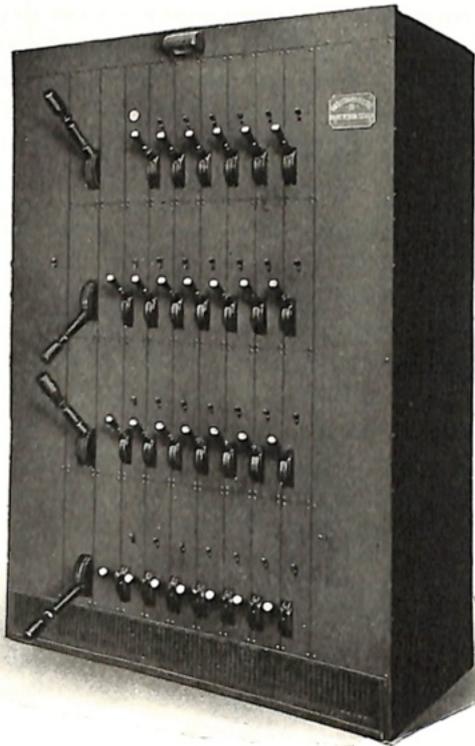
POSITIVELY NO ATTENTION PAID TO RENTAL ORDERS THAT DO NOT COMPLY WITH THE ABOVE CONDITIONS.

SWITCHBOARDS AND PANEL BOXES

We design and build Switchboards and Panel Boxes to meet and cover every conceivable purpose, or we can build same to your specifications and design.

The usual type is the dead front type in which all switches, fuses, and all live parts are mounted on separate panels back of the switchboard and the switches operated by insulated handles extending through the panel to the front of the board. In constructing our boards we use only the best material that complies in every detail to the National Board of Underwriters and City Electrical Inspection requirements.

PRE-SET SWITCHBOARDS



Our standard pre-set switchboards are of the dead front type and are built up in sections to meet the size requirements of various theatres, schools, colleges, lodges, and moving picture studios. A separate panel is provided for each branch circuit and one for each color master switch and dimmer handle. Each panel contains a double-pole, double-throw switch, the dimmer handle, if one is used, and a pilot lamp.

The switches and dimmers are mounted behind the board, thus exposing no live parts, and complying with all Underwriters' specifications. Each switch and each dimmer is provided with a handle on the face of the board, the dimmer handles being lined up on rods, usually one for each color, and these rods controlled by master handles at

the end of the board. The dimmers can thus be operated independently or any number of them locked to the shaft, by a quarter turn of the handle, and controlled as a unit.

The switches, if thrown in the up position, are connected on one set of color mains and if thrown into the down position are controlled by corresponding main switches, thus the switches for one scene may

PRE-SET SWITCHBOARDS

(Continued)

be set in the down position and the lower color mains turned on. This lights the present scene. Any additional circuits used in the next scene may be then set in the up position and at the end of the scene, one set of mains thrown out and the other set in. Then any circuits used in the first scene may be switched to the up position if required in the next scene. This pre-set feature is very desirable when one scene has but a few lights and the next is to have many circuits in use. It saves throwing in so many switches in a short time. The board can also be furnished with two stage mains rather than one, so that only these switches will need to be changed instead of setting six or eight color master switches.

Another advantage of this system makes itself apparent when it is desirable to "black out" with all but one or two circuits, and these circuits to follow an instant later. Then the up master may be left on and the independent circuits connected in the up position. As the other circuits will be set in the down position, when the down master is pulled all circuits will go out except those set independently. These can then be pulled one at a time or all at once with the up main.

If desired the dimmers can be provided with a master interlocking control, by means of which any number of circuits on any or all of the master rods can be controlled by a master lever or a slow-motion wheel. With cross interlocking control any group of lamps may be dimmed while another is being simultaneously brightened.

Small and less intricate boards can also be furnished for small installations where the usage would not warrant the expense of a large pre-set board. These are usually equipped with tumbler switches and the less expensive non-interlocking dimmers.

Plans and prices are furnished upon receipt of specifications. We are prepared to equip a complete theatre installation of any size and will be glad to figure on your wants, whether large or small.

PORTABLE SWITCHBOARD AND DIMMER BOXES

We design and build Portable Switchboards and Dimmer Boxes to meet the requirements of the traveling companies, outdoor shows, and others, requiring temporary equipment.

These portable outfits, which are mounted in a metal lined wooden trunk-like box, consist of the switchboard, dimmers, plugging in receptacles, etc., necessary to control the lighting equipment for which it was built. We specialize in furnishing temporary lighting equipment, etc., on a rental basis. For terms, see page 3.

THEATRE DIMMERS

Interlocking and Non-Interlocking

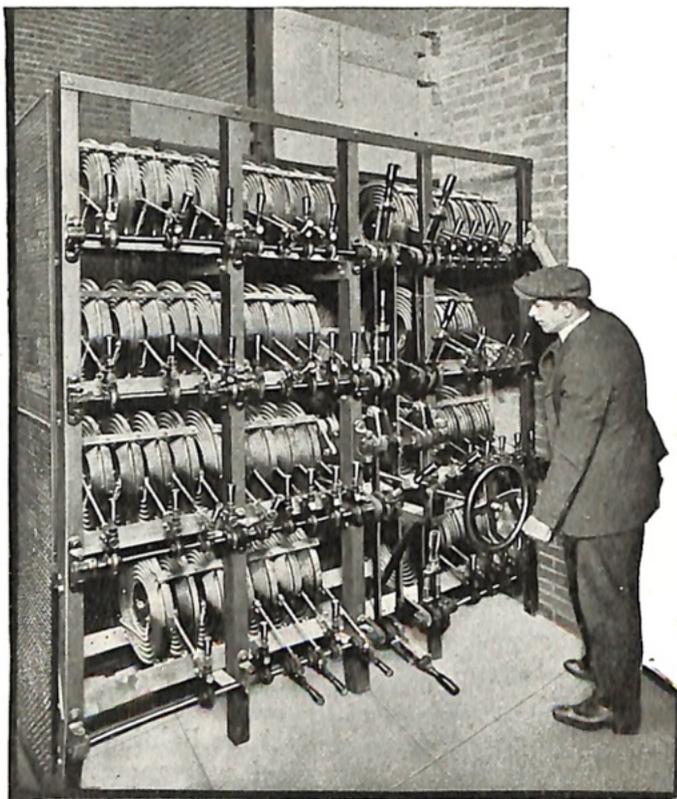
For Auditoriums, Theatres, Churches, Halls, etc., having a large number of circuits to control we recommend our banking type of continuous duty dimmer plates, which can be had in the non-interlocking or interlocking type.

The non-interlocking type consists of a number of 15 or 17 inch diameter banking type, continuous duty, plates all mounted in one bank with an independent dimmer handle on each plate.

The interlocking type consists of a number of 15 or 17 or 19 inch diameter continuous duty banking type plates all mounted in one bank equipped with one or more master control handles. The independent handle on each dimmer plate is equipped with an interlocking device which by simply giving the handle on any of the plates a half turn will interlock said plate so that it will be under the control of the master control handle.

This interlocking feature enables one to control two or more circuits with one master handle instead of having to operate each independent plate handle separately.

Where there is a bank containing several groups of interlocking dimmers in which each group is equipped with one or more master handles, a grand master control handle can be had to control the entire bank. These dimmer banks can also be had with a master control wheel for slow motion cross interlocking control. Where

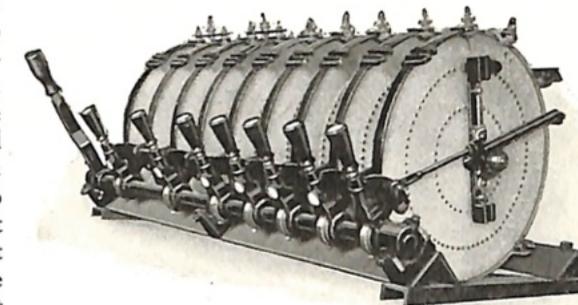


THEATRE DIMMERS

Interlocking and Non-Interlocking

(Continued)

remote control is required, single or multiple unit dimmers can be furnished equipped with a motor drive. Each dimmer plate has a 110 step graduation and when used on a circuit of its rated wattage and voltage will dim gradually the light load from full bright to completely out without any flickering. Each dimmer plate handle is provided with two color disc indicators, one on top and the other in front of the handle, so that it indicates at a glance which color circuit the dimmer plate controls.



A master control handle is furnished gratis on every bank of dimmers containing six or more dimmer plates and additional master handles will cost approximately about \$10.00 each.

The maximum wattage load that can be controlled on a 15 inch diameter dimmer plate is 2,000 watts, that of a 17 inch plate is 3,000 watts, and that of a 19 inch plate is 3,600 watts. The 17 inch plate is the standard size generally used.

Dimmer banks are arranged in mountings to fit certain available space and as some mountings are more costly than others we can only quote prices an application to fit your particular requirements. To assist those who wish to determine an approximate cost, before writing us for the actual net cost, on pages 8 and 10 we are quoting prices on a single dimmer plate unit and on a bank unit consisting of six dimmer plates with one master handle, in the 15, 17, and 19 inch diameter size plates and in the maximum wattage that each size plate will control.

Interlocking Dimmers For 115 Volt 2 Wire Circuit

Cat. No.	Size of Plates	Number of Plates	Total Load in Watts	Prices	Code Word
166	15 in.	One	2,000	\$ 45.00	abet
167	15 in.	Six	12,000	270.00	abed
168	17 in.	One	3,000	55.00	able
169	17 in.	Six	18,000	330.00	ably
170	19 in.	One	3,600	70.00	abut
171	19 in.	Six	21,600	420.00	acea

The shipping weight of the above is about 50 pounds per plate and the length of any of the above banks of 6 plates with one master handle is 32 inches. For other space requirements, see page 9.

DIMMERS ON RENTAL

We specialize in furnishing dimmer plates on rental under the condition that the party renting agrees not to use dimmer plates on a circuit having a greater wattage load than the rated wattage capacity of the dimmer plate rented. The party renting must further agree to pay for the full value of any dimmer plate returned broken or burnt out, accept and comply with Rental Terms given on page 3 of this catalog.

INFORMATION REQUIRED

When Ordering Dimmer Banks

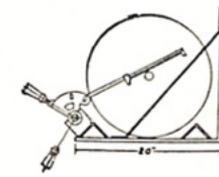
1. Voltage of lamp circuit.
2. Whether dimmers are for 2 or 3-wire circuit.
3. Total wattage that each dimmer plate is to control.
4. The name of each circuit to be controlled.
5. A rough sketch showing number and position of master handles desired and the plates that each master handle is to control.
6. The dimensions of the space available for the dimmers.
7. For typical forms of mounting framework, see page 9.

KEY TO DIAGRAMS ON OPPOSITE PAGE

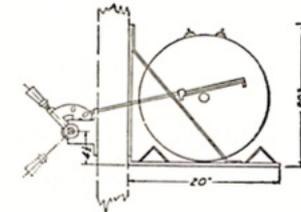
- Form 1.** Top of Switchboard Mounting, single row.
- Form 2.** Rear of Switchboard or Wall Mounting, single row.
- Form 3.** Front of Wall Mounting, single row.
- Form 4.** Top of Switchboard Mounting, 2 rows, with one row of operating handles.
- Form 5.** Top of Switchboard Mounting, 2 rows, with two vertical rows of operating handles.
- Form 6.** Top of Switchboard Mounting, 2 rows, with staggered rows.
- Form 7.** Floor Mounting, 3 rows, with enclosed type operating handles (panel front not included except at extra cost).
- Form 8.** Floor Mounting, 3 rows, with open type operating handles (panel front not included except at extra cost).
- Form 9.** Overhead Mounting, single row, with extension drive rods.

TYPICAL FORMS OF MOUNTING FRAMEWORK

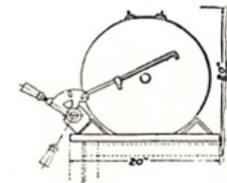
For Interlocking Banking Type Dimmers



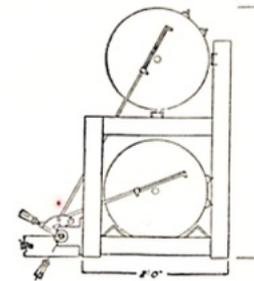
FORM 1



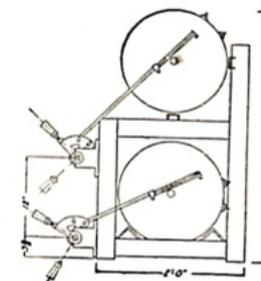
FORM 2



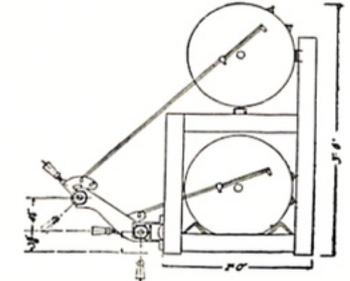
FORM 3



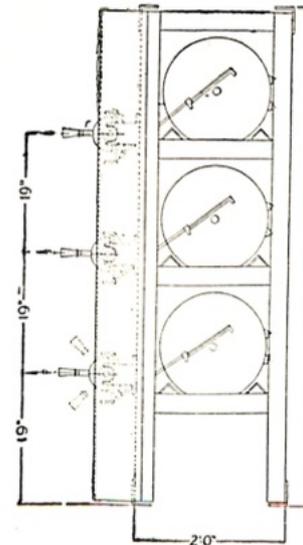
FORM 4



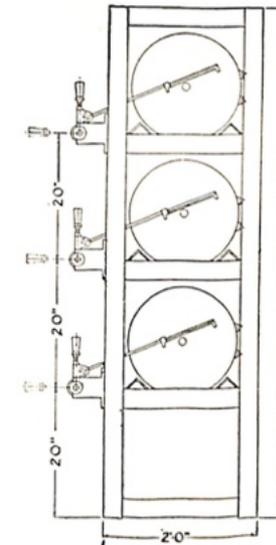
FORM 5



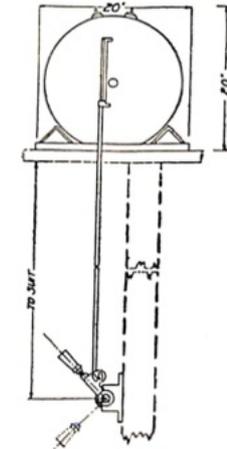
FORM 6



FORM 7



FORM 8



FORM 9

For Key to the above Diagrams, see page 8.

Extra features such as grand master lever control or slow motion hand wheel with cross control can be furnished with any form above.

THEATRE DIMMERS

For Halls, Churches, and Small Theatres



Flat against the wall mounting type.



Showing flat against the wall type equipped with fittings for mounting at right angle or perpendicular to the wall.

The single phase continuous duty dimmers illustrated and listed on this page are suitable for use in halls, churches and small theatres. Those listed below are for mounting flat against the wall and they can be made to mount at right angles or perpendicular to the wall by simply equipping each plate with our right angle to the wall mounting fittings listed at the bottom of the page.

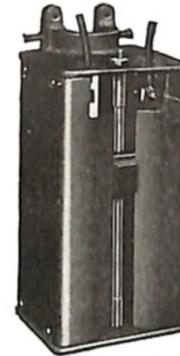
Below we state the full wattage load that each plate will control, size of each plate, catalog number and price. These plates are all made to operate on a two wire 110 volt circuit.

Cat. No.	Total Lamp Load	Size of Plate	Price	Code Word
172	60 watts	8 in.	\$10.40	acid
173	110 watts	8 in.	10.40	acme
174	220 watts	8 in.	10.40	acre
175	330 watts	8 in.	10.40	acta
176	440 watts	8 in.	10.40	adit
177	550 watts	8 in.	10.40	adze
178	660 watts	8 in.	10.40	aero
179	750 watts	8 in.	10.40	afar
180	825 watts	12 in.	14.00	aged
181	1,100 watts	12 in.	14.00	agio
182	1,375 watts	15 in.	16.00	ague
183	1,650 watts	15 in.	16.00	ahem
184	2,200 watts	17 in.	27.50	aide
185	2,750 watts	17 in.	27.50	ajar

RIGHT ANGLE TO THE WALL MOUNTING FITTINGS

Cat. No.	Description	Price	Code Word
186	Right Angle Fittings for 8 inch diameter plates	\$2.00	ajax
187	Right Angle Fittings for 12 or 15 inch diameter plates	2.00	akin
188	Right Angle Fittings for 17 inch diameter plates	2.00	alas

SPOT AND FLOOD LAMP DIMMERS



This type of portable dimmer is made special for use in controlling the volume of light projected by the incandescent type of spot and flood lamps.

This dimmer is graduated very finely and is operated by moving a slider contact up or down. The dimmer is enclosed in a ventilated metal case equipped so that it can be mounted to any of our one inch iron pipe lamp stands or fastened to any flat surface. These dimmers are made to operate on a two wire 110 volt circuit.

Cat. No.	Description	Price	Code Word
189	Dimmer for 300 watts (size 13 1/4 x 5 1/4 x 5 inches, weight 9 1/2 lbs.), 110 volt circuit, each	\$16.00	alga
190	Dimmer for 500 watts (size 13 1/4 x 5 1/4 x 5 inches, weight 9 1/2 lbs.), 110 volt circuit, each	18.00	ally
191	Dimmer for 750 watts (size 13 1/4 x 5 1/4 x 5 inches, weight 13 lbs.), 110 volt circuit, each	23.75	alms
192	Dimmer for 1,000 watts (size 17 3/4 x 5 1/4 x 5 inches, weight 13 lbs.), 110 volt circuit, each	23.75	alod
193	Dimmer for 2,000 watts (size 26 x 5 1/4 x 5 inches, weight 18 lbs.), 110 volt circuit, each	45.50	aloe

HIGH WATTAGE DIMMERS



For controlling more than one of the incandescent type of spotlamps, floodlamps, striplights, or any other incandescent type lighting equipment. Size of plate, 5 inches deep, 15 inches wide by 24 inches long, shipping weight 80 pounds.

Cat No.	Description	Price	Code Word
194	1,500 watt capacity plate	\$60.00	alow
195	2,500 watt capacity plate	60.00	also
196	3,250 watt capacity plate	60.00	alto
197	5,000 watt capacity plate	60.00	alum

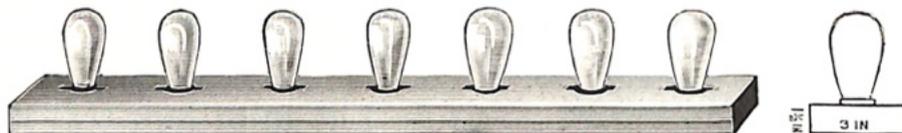
FOOTLIGHTS

Our Footlights are made in various designs and construction to meet every conceivable purpose from the smallest to the largest most modern theatre installation. Each type is designed to give the maximum amount of light possible and when in doubt as to the best type for your requirements our Engineering department will gladly render you their assistance.

For installations where the footlight is placed in a fixed permanent position and used frequently, our types which set in a footlight trough already fitted with reflector or those in which the reflector hood extends slightly (2 to 3 1/2 inches) above the stage floor level are generally used and recommended. Where the footlights are only used occasionally our Concealing Type is generally used and recommended. For temporary installations our Portable Types are used and recommended.

The reflector hood and wiring troughs on all of our footlights are made of galvanized sheet iron (double lined wherever necessary), designed and wired to comply with Underwriters' requirements and ruling of not allowing more than 1,320 watts to a two-wire circuit. We recommend all footlights to have at least three circuits of 1,320 watts each. Footlights furnished in any length or curvature desired with reflecting surface painted a permanent white or aluminum bronze finish, with all other surfaces painted a dull flat black. Other finishes furnished upon request.

When ordering or writing for prices please specify length and type desired, whether straight or curved, number of circuits and sockets on each circuit, and whether the feed wires are to come out on right or left-hand side when standing on the stage looking out into the auditorium.



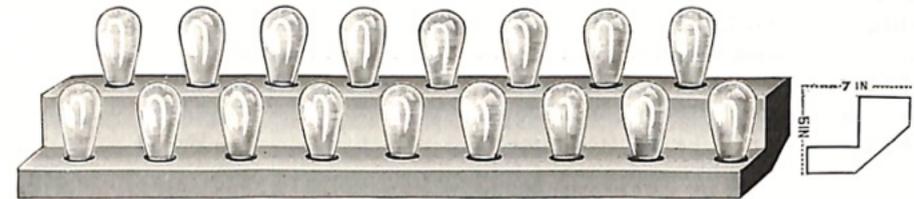
Cat. No. 198, Footlight Strip

Our Footlight Strip No. 198 without reflector hood is wired complete with a single row of medium screw base receptacles spaced 3 to 4 inches between centers to accommodate Mazda lamps of 75 watts or less and generally wired in 3 circuits for independent control of 3 colors. Designed for installations in stage footlight troughs already fitted with a permanent reflector.

Cat. No.	Code Word
198 Footlight Strip to fit your requirements. Price on application	amen

FOOTLIGHTS

(Continued)



Cat. No. 199, Two Step Footlight Strip

Our Two Step Footlight Strip without reflector hood is wired complete with two parallel rows of medium screw base receptacles spaced 3 to 4 inches between centers to accommodate Mazda lamps of 75 watts or less and generally wired in 3 circuits for independent control of 3 colors. Designed for installation in stage footlight troughs already fitted with a permanent reflector.

Cat. No.	Code Word
199 Two Step Footlight Strip to fit your requirements. Price on application	anew



Cat. No. 450, Footlight

Our Footlight No. 450, open face with reflector hood, is wired complete with a single row of medium screw base receptacles spaced 3 to 4 inches between centers to accommodate Mazda lamps of 75 watts or less and generally wired in 3 circuits for independent control of 3 colors. Made also in the two step with two rows of receptacles. Designed to set in a footlight trough so that the reflector hoods extend slightly above the stage floor level. This is the standard Board of Education type and it can be set on the top of the stage floor or furnished with brackets for fastening to the front of the stage. This type is also portable and is generally used for temporary installations. We carry made up in stock for temporary installation or rental purposes 8 foot long sections, each wired with 30 receptacles in 3 circuits. For prices see next page.

FOOTLIGHTS

(Continued)

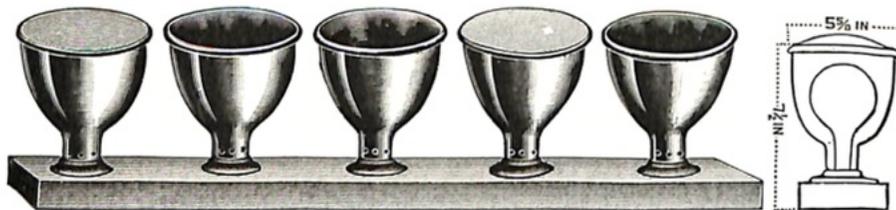
Cat. No.		Code Word
450	Footlight to fit your requirements, price on application	anil
451	Footlight (No. 450), 8 foot long, wired with 30 receptacles in three circuits..... \$34.00	anon
452	Footlight in two step type to fit your requirements, price on application.....	ansa



Cat. No. 453, Footlight

Our Sectional Footlight No. 453 is wired complete with a single row of medium screw base receptacles spaced six inches between centers, in separate partitioned compartments to accommodate Mazda lamps of 150 watts or less and generally wired in 3 circuits for independent control of 3 colors. Each compartment is fitted with slide grooves for holding metal color frames equipped with colored gelatine. Designed to set in a footlight trough so that the reflector hood extends slightly above the stage floor level.

Cat. No.		Code Word
453	Footlight to fit your requirements, price on application	anta
454	Metal Color Frame to fit above, each... \$0.90	ante



Cat. No. 455, Permanent Color Footlight

Our Permanent Color Footlight is wired complete with a single row of medium screw base receptacles spaced six inches between centers with special designed aluminum reflectors to accommodate Mazda lamps of 150 watts or less and generally wired in 3 circuits for independent control of 3 colors. Each reflector is arranged to hold one of our permanent color heat resisting diffusing lense fronts, which feature does away with having to continually color lamp globes on account of color fading. These reflectors are designed to project the maximum

FOOTLIGHTS

(Continued)

light possible to be obtained in a parabolic shape reflector and the illumination is far greater and superior to that of the standard type of footlight. Each reflector unit comes complete with a permanent color lense front in clear or any color selected. Designed to set in a footlight trough so that the reflector extends slightly above the stage floor level.

Cat. No.		Code Word
455	Permanent Color Footlight to fit your requirements, price on application.....	anti
456	Permanent Color Heat Resisting Lense front in clear or colors, each	apex

CONCEALING TYPE FOOTLIGHTS

Our Concealing Type Footlights for installation in lodge halls, auditoriums, schools, etc., where a footlight is only used occasionally are designed and constructed so that when in use the reflector hood extends slightly above the stage floor level and when not in use they can be quickly closed up and concealed underneath the stage floor. All our Concealing Type Footlights are made up in five foot long sections, each consisting of a one-inch thick hardwood frame equipped with a one-inch thick hardwood panel to which the metal wiring trough and reflector is attached underneath. When the panel is swung closed it becomes and serves as a part of the stage floor with the hardwood frame, which is set flush with the stage floor level.

Each panel is equipped with a switching device that automatically turns on the current when the panel is opened and automatically turns it off when the panel is closed. Each panel is equipped with a suitable splicing box for making wire connections and also with a locking device and key. Concealing Type Footlights are made up in three ways, single row of receptacles, two rows of receptacles, and permanent colored lense front type. Other lengths furnished if desired.



Cat. No. 457, Concealing Type Footlight

Our Concealing Type Footlight No. 457 is wired complete with a single row of fifteen medium screw base receptacles spaced 3 1/2 inches between centers to accommodate Mazda lamps of 75 watts or less and wired in three 2-wire circuits for independent control of 3 colors.

FOOTLIGHTS

(Continued)

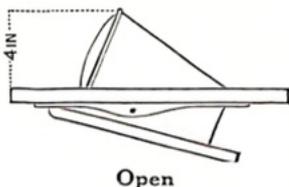
Our Concealing Type Footlight No. 457 is wired complete with two parallel rows of medium screw base receptacles spaced 3 1/2 inches between centers to accommodate Mazda lamps of 75 watts or less and wired in three 2-wire circuits for independent control of 3 colors. Front row of fifteen receptacles wired in one circuit and back row of fourteen receptacles wired in two circuits.

Cat. No.		Price	Code Word
457	Concealing Type Footlight, single row, complete 5 foot section	\$50.00	apse
458	Concealing Type Footlight, two rows, complete 5 foot section	80.00	arab



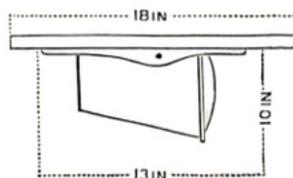
Cat. No. 459, Permanent Color Concealing Type Footlight

Our Permanent Color Concealing Type Footlight No. 459 is wired complete with a single row of nine medium screw base receptacles spaced six inches between centers with special designed aluminum reflectors to accommodate 150 watt Mazda lamps and wired in 3 circuits for independent control of 3 colors. Each reflector is arranged to hold one of our permanent colored heat resisting diffusing lense fronts, which feature does away with having to continually color lamp globes on account of color fading.



Open

These reflectors are designed to project the maximum light possible to be obtained in a parabolic shape reflector and the illumination is far greater and superior to that of the standard type of footlight. Each reflector comes complete with a permanent colored lense front in clear or any color selected.



Closed

Cat No.		Price	Code Word
459	Permanent Color Concealing Type Footlight in complete 5 foot section	\$100.00	arch
460	Permanent Color Heat Resisting Lense Front in clear or colors, each	2.00	area

PORTABLE FOOTLIGHTS AND BORDER LIGHTS

Our Portable Footlights and Border Lights are designed for temporary installations on portable stages or in small auditoriums, little theatres, schools where a footlight and border light is only used occasionally. For Portable Footlights, see our Catalog No. 450, on page 13. For Portable Border Lights, see Catalog No. 461, on page 18.

BORDER LIGHTS

Our Border Lights are made in various designs and constructions to meet every conceivable purpose from the smallest to the largest most modern theatre installation. Each type is designed to give the maximum light possible, and when in doubt as to the best type for your requirements our Engineering department will gladly render you their assistance.

The reflector hood and wiring trough on all our border lights are all made of galvanized sheet iron (double lined wherever necessary), designed and wired to comply with Underwriters' requirements and ruling, of not allowing more than 1,320 watts to a 2-wire circuit. We recommend all border lights to have at least three circuits of 1,320 watts each.

Our Border Lights are all made strong and rigid with fouling brace irons spaced every 4 to 5 feet across the face to protect the lamps from being broken if border is fouled with scenery. Each border light is equipped with looped iron chains spaced every 4 to 5 feet for hanging in proper position.

The parabolic shape aluminum reflectors used in our Permanent Color Border Lights was designed by one of the best light engineers in the country, for maximum efficiency, and this reflector type border light is without a doubt the best on the market today.

Border Lights furnished in any length desired with reflecting surface painted a permanent white or aluminum bronze finish with all other surfaces painted a dull flat black. Other finishes furnished upon request.

When ordering or writing for prices please specify length and type desired, number of circuits and sockets on each circuit, and whether feed wires are to come out on right or left hand side when standing on the stage looking out into the auditorium.

(Continued on page 18)

BORDER LIGHTS

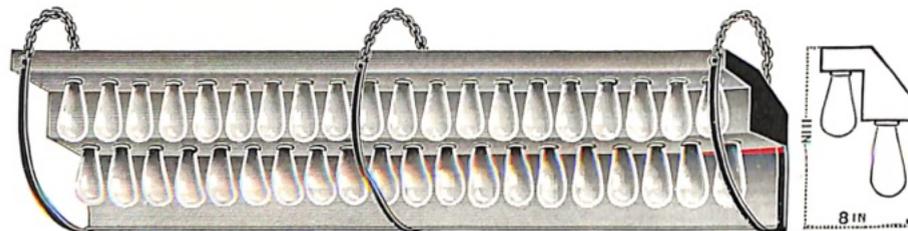
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Cat. No. 461, Border Light

Our Border Light No. 461, open face, is wired complete with a single row of medium screw base receptacles spaced 3 to 4 inches between centers to accommodate Mazda lamps of 100 watts or less and generally wired in 3 circuits for independent control of 3 colors. When hung in position, border light occupies a 7 inch wide space. This type is also portable and is generally used for temporary installations. We carry made up in stock for temporary installations or rental purposes 8 foot long sections, each wired with 30 sockets in 3 circuits.

Cat No.		Code Word
461	Border Light to meet your requirements, price on application	aria
462	Border Light (No. 461), 8 foot long, wired with 30 sockets in 3 circuits. \$36.00	arid



Cat. No. 463, Two Step Border Light

Our Two Step Border Light No. 463, open face, is wired complete with two parallel rows of medium screw base receptacles spaced 3 to 4 inches between centers to accommodate Mazda lamps of 100 watts or less and generally wired in 3 circuits for independent control of 3 colors. When hung in position Border Light occupies a 12 inch wide space.

Cat. No.		Code Word
463	Two Step Border Light to meet your requirements, price on application.	arms

BORDER LIGHTS

(Continued)



Cat. No. 464, Sectional Border Light

Our Sectional Border Light No. 464 is wired complete with a single row of medium screw base receptacles spaced six inches between centers, in separate partitioned compartments, to accommodate Mazda lamps of 200 watts or less and generally wired in 3 circuits for independent control of 3 colors. Each compartment is fitted with slide grooves for holding metal color frames equipped with colored gelatine. When hung in position Border Light occupies a 10-inch wide space.

Sectional Border Light No. 465 is the same style as No. 464 above with the exception that it is wired complete with mogul base receptacles spaced 11 1/2 inches between centers to accommodate Mazda lamps of 300 watts or less. When hung in position this Border Light occupies 11-inch wide space.

Cat. No.		Code Word
464	Sectional Border Light to meet your requirements, price on application.	army
465	Sectional Border Light to meet your requirements, price on application.	ashy
466	Metal Color Frames to fit above, each. \$0.90	asps



Cat. No. 467, Permanent Color Border Light

Our Permanent Color Border Light No. 467 is wired complete with a single row of medium screw receptacles, spaced six inches between centers, with special designed aluminum reflectors to accommodate Mazda lamps of 150 watts or less and generally wired in 3 circuits for independent control of 3 colors. Each reflector is arranged to hold one of our permanent color heat-resisting lense fronts, which feature does away with having to continually color lamp globes on account of color fading. The curve of the parabolic shape reflector is designed to

BORDER LIGHTS

(Continued)

project the maximum light possible to be obtained in a parabolic shape reflector and the illumination is far greater and superior to that of the standard types of Border Lights. Each reflector unit comes complete with a permanent color lense front in clear or any color selected. The full row of reflectors and wiring trough are mounted in a galvanized sheet from housing painted a dull flat black, and when hung in position Border Light occupies a 9-inch wide space.

Cat. No.		Code Word
467	Permanent Color Border Light to meet your requirements, price on application.....	atom
468	Permanent Color Heat-Resisting Lense Front in clear or colors, each.....\$2.00	aunt

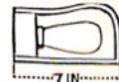
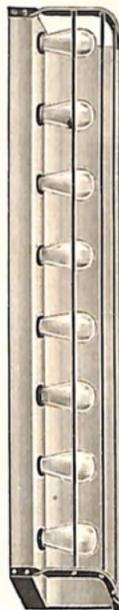
PROSCENIUM LIGHTS



Our Proscenium Lights, made in several designs and constructions to meet the various stage requirements, are made for mounting on the proscenium walls for the purpose of projecting light in a vertical direction. These lights are made of galvanized sheet iron with the receptacles arranged so that the globes are fully protected from being fouled by scenery, etc. The reflecting surface is painted in a permanent white or aluminum bronze finish and all other surfaces painted a dull flat black. These lights are made up in standard lengths with strap hinges for mounting, completely wired, ready for installation. Other lengths and designs made up to order.

Proscenium Light No. 469, 15 feet long, wired complete with 22 medium screw base receptacles held in a suspended position, spaced 8 inches between centers, to accommodate Mazda lamps of 60 watts or less, and wired in one circuit for white with feed wires at the lower end.

Proscenium Light No. 470, 16 feet long, wired complete with a single row of 48 medium screw base receptacles, spaced 4 inches between centers, to accommodate Mazda lamps of 60 watts or less and wired in 3 circuits for independent control of 3 colors with feed wires at the lower end.

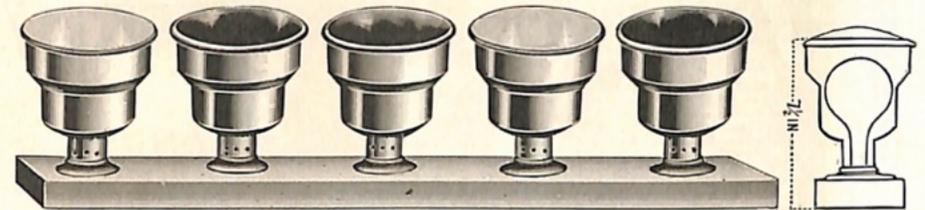


Cat. No. 470

Cat. No.	Price	Code Word
469	Proscenium Light described above.....\$33.00	auto
470	Proscenium Light described above..... 38.00	aver

COVE AND DOME LIGHTS

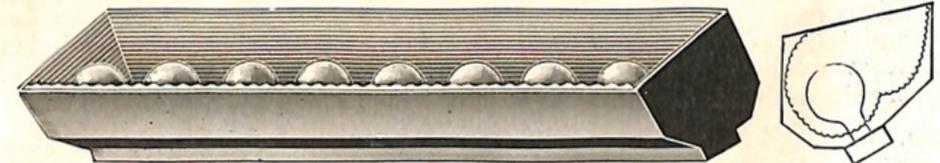
Our Cove and Dome Lights are made in various designs for indirect lighting of coves and domes in theatres, ballrooms, auditoriums, churches, lodge rooms, etc. These lights are used for projecting beautiful color effects and can be furnished in any length or curvature desired.



Cat. No. 471, Cove and Dome Light

Our Cove and Dome Light No. 471 is wired complete with a single row of medium screw base receptacles spaced 3 to 4 inches between centers to accommodate Mazda lamps of 75 watts or less and generally wired in 3 circuits for independent control of 3 colors. Designed for installations where it can be hidden from view.

Cat. No.		Code Word
471	Cove and Dome Light to meet your requirements, price on application.....	avid

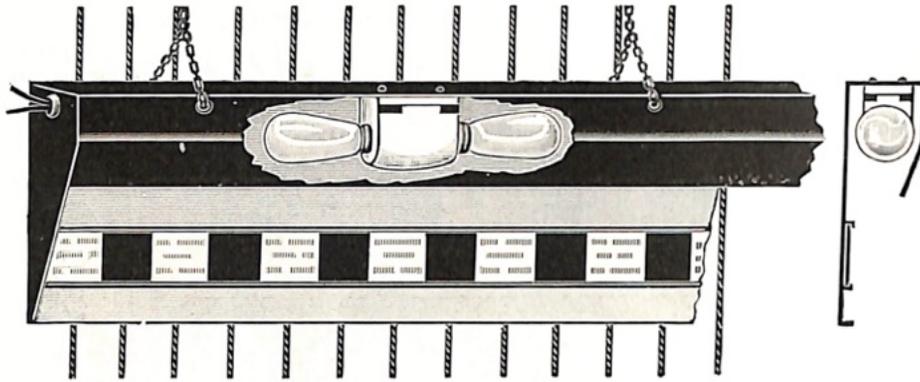


Cat. No. 472, Cove and Dome Light

Our Cove and Dome Light No. 472 is a new type designed with a special shape high lustre corrugated reflector that instead of the bright direct rays projecting directly out from the globe or reflector on the surface to be illuminated, the rays are reflected out by one side of the reflector so that the direct rays will be projected on the surface to be illuminated at the point where the light would ordinarily be fading out, thereby projecting a perfectly, evenly balanced light over the full surface to be illuminated. This light used as a footlight projects an even diffused light, avoiding to a great extent the sharp shadows caused by the usual type of footlight. This cove and dome light is wired complete with a single row of medium screw base receptacles spaced 5 to 10 inches between centers to accommodate Mazda lamps of 300 watts or less and is generally wired in 3 circuits for independent control of 3 colors.

Cat. No.		Code Word
472	Cove and Dome Light, price on application...	avow

PIN RAIL LIGHTS



Cat. No. 473, Pin Rail Light

Our Pin Rail Light No. 473 is a new type of light designed to light up the Pin Rail without projecting any stray or reflected light on any other part of the stage, thereby not affecting the darkest stage scene setting, and at the same time assisting stage crew to handle the show smoothly. This light is equipped with a 4 1/4 inch high card index slide groove the full length of the light, so that a card can be placed before each line to indicate just what drop, etc., is controlled by each line.

The Pin Rail Light is made of galvanized sheet iron wired with medium screw base two-light receptacles arranged so that the globes are completely concealed and a reflected light projected on the card index slide groove. The concealed reflecting surface is painted an aluminum bronze finish with all other surfaces painted a dull flat black.

Cat. No.		Code Word
473	Pin Rail Light in length to meet your requirements, price on application.....	away

SHOW CASE AND WINDOW DISPLAY LIGHT



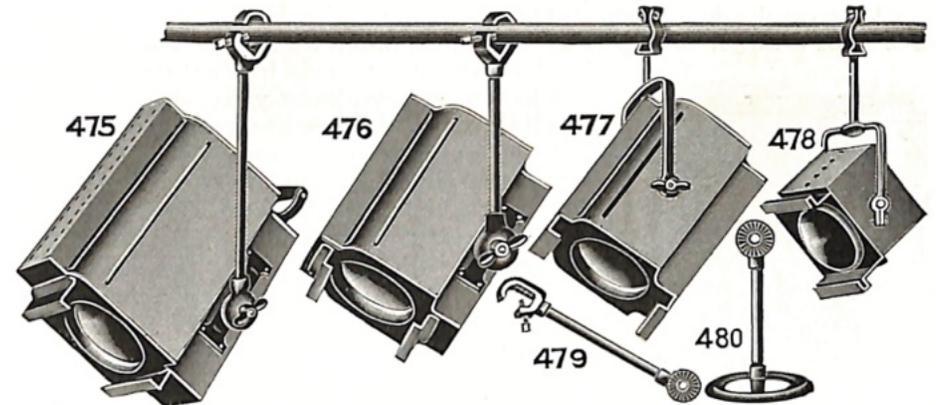
Cat. No. 474, Show Case Light

Our Show Case and Window Display Light No. 474 is made of galvanized sheet iron with aluminum lined reflector and wired with medium screw base twin light receptacles to accommodate 25 to 40 watt tubular globes. Outside finished in dead black or any other finish desired.

Cat. No.		Code Word
474	Show Case Light to meet your requirements, price on application.....	awes

SPOTLIGHTS

Balcony Rail and Suspension Types



Our Balcony Rail and Suspension Type Spotlights consist of our various styles of spotlight hoods equipped with our Balcony Rail Attachment No. 480 or Suspension Spot Attachment No. 479.

Our Balcony Rail Attachment No. 480 consists of a short length of 1/2 inch iron pipe with a No. 891 Knuckle Joint on one end and a small round 7 inch diameter iron base on the other end. The base is equipped with 4 screw holes for mounting same on the top or down in front of the balcony rail or same can be mounted to a ceiling for suspension purposes.

Our Suspension Spot Attachment No. 479 consists of a short length of 1/2 inch iron pipe with a No. 891 Knuckle Joint on one end and one of our No. 903 Pipe Clamps on the other end so that same can be clamped to an iron pipe for hanging spotlights in any position.

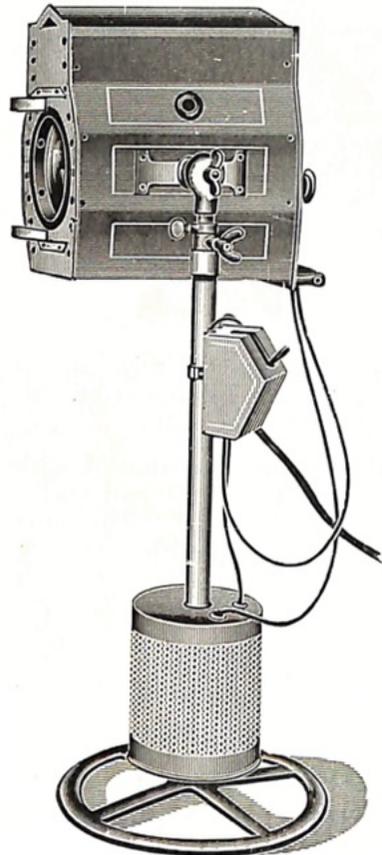
Our Cat. No. 475 Suspension Type Spotlight consists of one of our No. 492 Spotlight Hoods (described on pages 26 and 27), equipped with No. 479 Attachment. Cat. No. 476 Suspension Type Spotlight consists of our No. 502 Spotlight Hood (described on page 28), equipped with No. 479 Attachment. Cat. No. 477 Suspension Type Spotlight consists of one of our No. 507 Baby Spotlights equipped with a small metal pipe clamp. Cat. No. 478 Suspension Type Spotlight consists of one of our No. 504 Baby Spotlights equipped with a small metal pipe clamp.

Cat. No.		Price	Code Word
475	Suspension Type Spotlight	\$38.25	awls
476	Suspension Type Spotlight	26.25	axis
477	Suspension Type Spotlight.....	19.00	axle
478	Suspension Type Spotlight.....	14.00	baby
479	Suspension Spot Attachment	3.25	back
480	Balcony Rail Attachment	2.50	bade

SPOTLIGHT LAMPS

Arc Type

Our Spotlight Lamp, sometimes called the Lens Box or Chaser, consists of a large, roomy lamp house, mounted on a telescopic wrought-iron stand by a side bracket or suspended in a cast aluminum yoke, so that it can be raised, lowered, swung or tilted to any angle, 1 condensing lens, 1 35-ampere rheostat No. 877, 1 enclosed switch, 12 feet of asbestos covered wire, 25 feet of stage cable and 1 hand feed arc lamp mounted on an adjustable base, so that it can be moved forward or back to make any size field of light desired. The lamp house is made of Wellsville Polished iron, double lined on both sides and triple lined top, with front and rear plates made of aluminum.



Cat. No. 481

The 3/4 inch air space between each lining for ventilation carries away the extreme heat very quickly, making it the best lamp house on the market for saving the condensers from cracking. The feature of this lamp is our hinged drop or dump door in the back of the lamp house, to which the arc lamp is fastened, so that it can be tilted out to trim or make a change of carbons in a minute's time. The above lamp can be changed from a spot to a flood or from a flood to a spotlight instantaneously by simply moving the arc lamp forward or backward in the lamp house. We make up two sizes of arc type spot lamps, namely, our No. 481 and No. 482 for standard length throws and our No. 484 and No. 483 for long throws. We equip our spot lamps with a five or a six-inch diameter

condenser and unless otherwise ordered we put in a six-inch diameter condenser. These spot lamps are equipped to operate on a 110 to 125 volt 2-wire circuit.

Cat. No.		Price	Code Word
481	Spot Lamp Outfit, equipped with side bracket mounting and a 5 or 6-inch diameter lense, complete	\$70.00	bail
482	Spot Lamp Outfit, equipped with an aluminum yoke mounting and a 5 or 6-inch diameter condenser, complete.	80.00	bait

SPOT LAMPS

(Arc Type—Continued)

Cat. No.		Price	Code Word
483	Spot Lamp Outfit, equipped with side bracket mounting and a 5 or 6-inch diameter condenser, complete	\$75.00	bake
484	Spot Lamp Outfit, equipped with an aluminum yoke mounting and a 5 or 6-inch diameter condenser, complete	85.00	bald
485	Spot Lamp Hood only, complete with arc lamp, lens and side bracket, but no iron stand, rheostat or stage cable . . .	50.00	bale
486	Spot Lamp Hood only, complete with arc lamp, lens and side bracket, but no iron stand, rheostat or stage cable	55.00	balk

SPOT LAMPS

For Heavy Duty

Our heavy duty spot lamps are similar in construction to our standard type of spot lamps described above with the exception that they are larger, heavier constructed and equipped with a high amperage rheostat.

The lamp house is suspended in a yoke mounted on an adjustable iron pipe stand equipped with rheostat to operate on 110 to 125 volt 2-wire circuit. The lense opening in the hood is 8 inches in diameter, so that 8-inch or smaller diameter lenses can be used in same. Each outfit listed below is complete with asbestos covered wire, stage cable, switchbox and 8-inch lense.



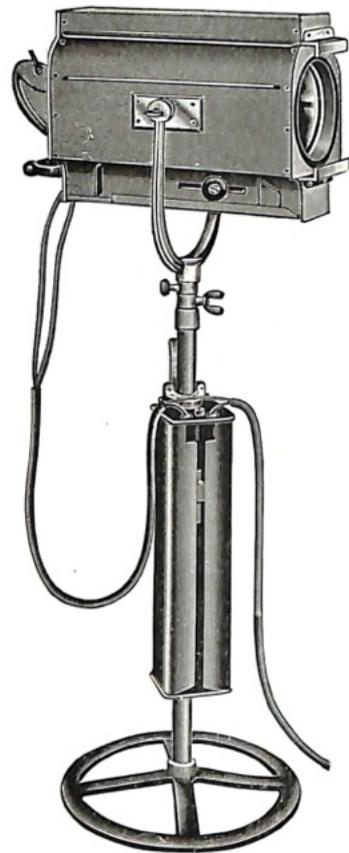
Cat. No. 482

Cat. No.		Price	Code Word
487	Spot Lamp, heavy duty type with 50 ampere rheostat	\$185.00	ball
488	Spot Lamp, heavy duty type with 70 ampere rheostat	225.00	balm
489	Spot Lamp Hood only, heavy duty type	110.00	banc

NEW SUPER BRILLIANT SPOTLIGHT

High Wattage Incandescent Type

Our New Super Brilliant Spotlight is the very latest in modern stage lighting. This Super Brilliant Spotlight is equipped with one of our



Cat. No. 494
With 1,000 Watt Dimmer

new special construction filament thousand watt globes and one of our High Power Mirror Reflectors designed especially for this globe. This wonderful spotlight projects a brilliant white flat field of light that is equivalent to that projected by a 75 ampere arc spotlight operated on alternating current. Even with the high power mirror reflector taken out of the spotlight it still projects a light practically equivalent to that projected by a 1,500 watt standard stereopticon globe. Another great feature is that the mirror reflector does not show the filament when projecting small spot fields of light.

The spotlight hood equipped with a balcony rail mounting is the best type of spotlight for mounting permanently on the balcony rail to spot and flood light the stage on account of its brilliant white light and the feature of being able to control same from the stage switchboard.

The standard type of stereopticon globes, 500 watts up to 2,000 watts, can also be used in this spotlight without the mirror reflector, and by using a mogul to medium screw base adapter the smaller wattage medium screw base stereopticon globes can be used.

The super brilliant spot lamp house, which is made of Wellsville Polished Iron, is large, roomy, and perfectly ventilated, and is mounted on a telescopic wrought-iron stand by means of a side bracket mounting or can be had suspended in the yoke type mounting and in either type the hood can be raised, lowered, or tilted to any angle.

The lamp house is equipped with a mogul socket mounted on a hand-actuated sliding track that operates from the outside of the lamp house so that the light can be changed from a spot to a flood or vice versa instantaneously.

NEW SUPER BRILLIANT SPOTLIGHT

High Wattage Incandescent Type

(Continued)

Each lamp house is equipped with a 5 or 6-inch lense (6-inch furnished unless otherwise ordered), 8 feet of asbestos covered cable, a 15 ampere slip connector, and 25 feet of stage cable.

For an outfit that will produce a special or gradual color changing effect from full candlepower down to nothing, or vice versa, we recommend our outfits equipped with spotlight dimmers listed separately on page 11 of this catalog.

Cat. No.		Price	Code Word
490	Super Brilliant Spotlight side bracket mounting, complete with high power mirror reflector and 1,000 watt super brilliant globe	\$54.00	band
491	Super Brilliant Spotlight side bracket mounting, complete, but without high power mirror reflector or 1,000 watt super brilliant globe	42.00	bane
492	Super Brilliant Spot Lamp Hood only, side bracket mounting type complete, but without mirror reflector, globe or iron stand	35.00	bang
493	Super Brilliant Spotlight yoke type mounting, complete with high power mirror reflector and 1,000 watt super brilliant globe	64.00	bank
494	Super Brilliant Spotlight yoke type mounting, complete, but without high power mirror reflector or 1,000 watt super brilliant globe	50.00	bans
495	Super Brilliant Spot Lamp Hood only, yoke type mounting, complete with yoke but without high power mirror reflector, 1,000 watt globe, or stand . .	43.00	barb
496	Super Brilliant Mirror Reflector only . .	5.00	bard
497	Super Brilliant 117 volt, 1,000 watt, G 40 globe	6.75	bare

BABY SPOT LAMPS

Incandescent Type—250 Watts to 1,000 Watts

This Baby Spot Lamp is generally used on the stage for special lighting or for short throws. For special controlled lighting changes we recommend this spotlight equipped with spotlight dimmers. The spotlight consists of a small, neat, perfectly ventilated lamp house made of Wellsville Polished sheet iron with a cast aluminum front and back, mounted on a telescopic adjustable wrought-iron stand by means of a side bracket mounting or suspended in a yoke type mounting so that the hood can be raised, lowered, or tilted to any angle.

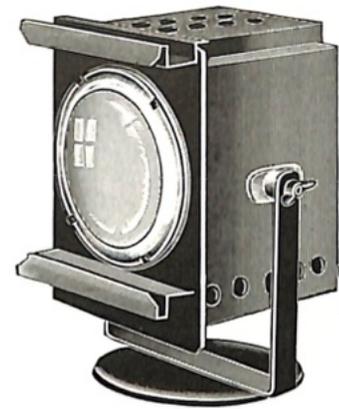


Cat. No. 500

The lamp house is equipped with a 5-inch diameter lense and a mogul socket with an adapter, so that both the G30 medium screw base and G40 mogul base globes up to 1,000 watts can be used in same. The socket is mounted on a hand-actuated sliding track that is controlled from the outside of the house, so that the field of light can be changed from a spot to a flood or vice versa instantaneously. Each lamp house is equipped with 5 feet of asbestos covered cable, a slip connector, and 25 feet of stage cable.

Cat. No.		Price	Code Word
498	Baby Spot Lamp, side bracket type, complete without globe	\$28.00	bark
499	Baby Spot Lamp, yoke type, complete without globe	34.00	barn
500	Baby Spot Lamp, side bracket type, equipped with 250 watt spotlight dimmer, complete with 250 watt globe..	45.75	bars
501	Baby Spot Lamp, yoke type, equipped with 250 watt spotlight dimmer, complete with 250 watt globe.	49.75	base
502	Baby Spot Lamp Hood only, side bracket type, complete without globe.	23.00	bass
503	Baby Spot Lamp Hood only, yoke type with yoke, complete without globe. . .	29.00	bate

FOOTLIGHT BABY SPOT



Cat. No. 504

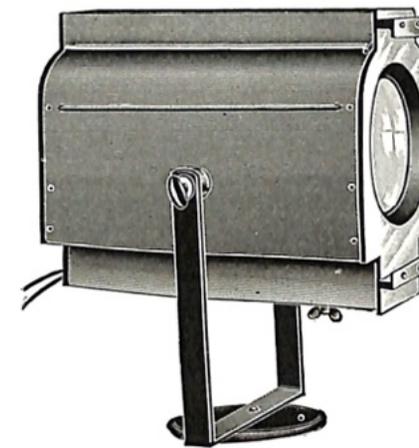
Our Footlight Baby Spot is made very small, just large enough to hold a 250 watt stereopticon G30 globe, so that the lamp can be laid and concealed in the footlights. The lamp house is made of Wellsville Polished sheet iron suspended in a yoke mounted on a small sheet metal base. The lamp house is equipped with a 4 1/2-inch diameter condenser and medium screw base socket with short asbestos wire leads.

The size of the field of light can be controlled only by moving the spot lamp to and from the object illuminated.

For special controlled lighting or gradual color changes we recommend the use of a 250 watt dimmer, listed on page 11.

Cat. No.		Price	Code Word
504	Footlight Baby Spot Lamp without globe.	\$13.25	bays
505	Footlight Baby Spot with 250 watt globe	15.00	bead
506	Footlight Baby Spot, same as No. 504, but without yoke or metal base.	10.25	beak

FOOTLIGHT FOCUSING BABY SPOTS

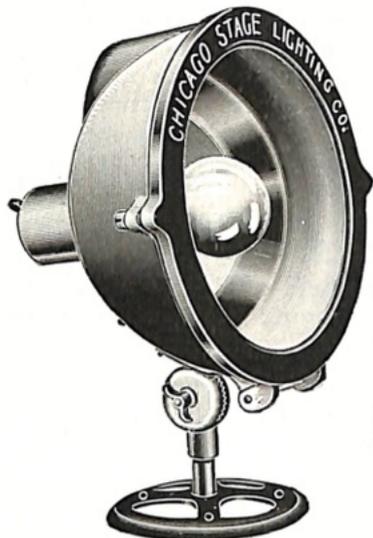


Our Footlight Focusing Baby Spot is made very neat and small, so that it can be used for many purposes on the stage, or for window display lighting. It can be set in the footlights, floor, or table, or hung overhead or attached to a side wall. The house is made of Wellsville Polished sheet iron with cast aluminum front and back, and is equipped with a medium screw base socket mounted on a sliding track for projecting a spot or flood field of light. Stereopticon type G30 globes up to 400 watts, and tubular globes up to 500 watts with medium screw base can be used in this lamp house. The

lamp house is mounted on a yoke equipped with a round metal base, making it handy to use for a great many purposes.

Cat. No.		Price	Code Word
507	Baby Spot Lamp, without globe, each. . .	\$18.25	beam
508	Baby Spot Lamp with 250 watt globe, each	20.00	bean

SUPER SERVICE FLOODLIGHT



Cat. No. 509



Cat. No. 512

Our Super Service Floodlight is a small compact floodlight projector and on account of the ease in which it can be concealed, answers the many floodlighting problems which have heretofore been very perplexing.

The use of this small super service light unit offers many advantages in the illumination of Play Grounds, Theatres, Buildings, Garages, Foundries, Storage Yards, Signs, Railroad Turntable and Roundhouse, Stall lighting and innumerable other industrial lighting problems.

The glass mirrored reflector for this super service unit was designed especially for 250 and 400 watt G30 Mazda C lamps, and we are confident, utilizes a greater

percentage of the available light by concentrating it in a specified area than any other similar unit. A simple focusing mechanism assures accurate beam control from 6 to 25 degrees, which can be increased to 40 degrees through the use of diffusing lenses. Either plain or diffusing lenses in clear, amber, blue, green, or ruby will be supplied with the projector at no additional cost—unless otherwise specified the plain clear will be furnished.

The housing of this weatherproof projector is composed entirely of cast aluminum with all fittings and adjustments of brass, and provides for ample radiation and ventilation. Ventilation of this unit is the result of considerable scientific experiment and permits of the rapid dissipation of heat through a series of baffles which are absolutely weatherproof and exclude dirt and dust. The knuckle joint, a part of the housing, assures the adaptability of mounting this unit to cover any method or condition called for.

Cat. No.		Price	Code Word
509	Super Service Floodlight, complete with base, but without globe.....	\$30.00	beat
510	Super Service Floodlight, complete with pipe clamp fitting No. 512 instead of base, but without globe.....	32.00	beat
511	Glass Front, in clear or any color to fit above unit	5.00	beau
512	Pipe Clamp Fitting Mounting.....	3.25	beck

OVERHEAD OR SUSPENSION FLOOD LAMP

Our Overhead or Suspension Type Incandescent Flood Lamp is made of galvanized sheet metal with two loops of iron link chains, so that the lamp can be hung in any position. The lamp is equipped with a mogul base socket and with short asbestos covered wire leads extending out through the hood so that nitrogen gas-filled lamps of 1,000 watts or less can be used in same. This type of lamp has given great satisfaction on account of the great number of uses it can be put to and in many places a number of them are used in place of a border light. The lamp is equipped with a color frame holder groove, so that our wood color frames No. 555 can be used to project colors.



Cat. No. 513

Cat. No.		Price	Code Word
513	Overhead or Suspension Type Flood Lamp, without any globe.....	\$18.00	beds
514	1,000 watt PS52 Globe for above lamp, each	3.75	bees

BUNCHLIGHT FLOOD LAMPS



Cat. No. 516

Cat. No. 515

Our Bunchlight Lamps are all made of galvanized sheet iron, mounted on an adjustable iron pipe stand so that the hood can be raised, lowered, or tilted to any angle. The hood is perfectly ventilated with the reflecting surface painted in aluminum bronze to give the greatest amount of illumination. Each hood is equipped with a double groove color frame holder, short asbestos covered wire leads, a slip connector, and 25 feet of stage cable. Each outfit listed below is complete on iron stand without any globes.

Cat. No.		Price	Code Word
515	Bunchlight, wired with 6 sockets, complete on stand	\$20.00	beef
516	Bunchlight, wired with 12 sockets, complete on stand	24.00	begs

HIGH WATTAGE FLOOD LAMPS

Our High Wattage Flood Lamps, designed to use the new high wattage nitrogen pear-shape lamps, consist of a perfectly ventilated galvanized sheet iron hood equipped with a mogul socket and a double groove frame holder, so that color frames No. 555 can be used in same. We make up two types of these hoods, one as illustrated on the bottom of this page and the other type is equipped with a spring hinged color frame wing or door on each side of the hood to cover the frame groove ends so that when a color frame is used there will be no stray white light reflecting out from the sides of the hood. On our single standard the hood is mounted on an adjustable telescopic malleable iron pipe stand, so that it can be raised, lowered or tilted to any angle. Each hood is equipped with short

asbestos covered wire leads, a slip connector, and 25 feet of stage cable.

Our Triple or 3 Hood Flood Lamp consists of three of our No. 517 High Wattage Flood Hoods mounted on a telescopic iron stand with an extra heavy iron floor base.

The special feature of this flood lamp is that it has three distinct flood lamp hoods occupying practically the space of only one flood lamp. The hoods are mounted in such a manner that each hood can be raised, lowered, or tilted to any position independent of each other, so that the light can be projected in three directions or all to one point.



Cat. No. 517

Where special controlled or gradual change of lighting is desired, we recommend the addition of our spot lamp dimmers, listed separately on page 11 of this catalog. We recommend the use of 1,000 watt PS52 globes in the flood lamps listed on page 33. Smaller wattage globes can be used if desired. For prices on globes, see page 57.



Cat. No. 518

HIGH WATTAGE FLOOD LAMPS

Incandescent Type

(Continued)

Cat. No.		Price	Code Word
517	1,000 Watt Flood Lamp, complete without globe	\$25.00	bell
517A	1,000 Watt Flood Lamp, color frame wing type, complete without globe . . .	28.00	belt
518	Triple Flood Lamp, as shown above, complete without globes	85.00	bend
519	1,000 Watt Flood Lamp Hood only, complete without globes	20.00	bent
758	1,000 Watt PS52 Globe, for above lamps, each	3.75	best
555	Wood Color Frame to fit the above lamps . . . . .	.60	bets



Cat. No. 520

OLIVET BOX OR OPEN LAMP

Arc Type

Our Olivet Box or Open Lamp consists of a galvanized sheet iron lamp house, equipped with two grooves for holding color frames. It is mounted on a telescopic wrought-iron stand with adjustment hand screws for raising, lowering, swinging, or tilting it to any angle.

The lamp house is thoroughly ventilated and is equipped with a sparkproof screen.

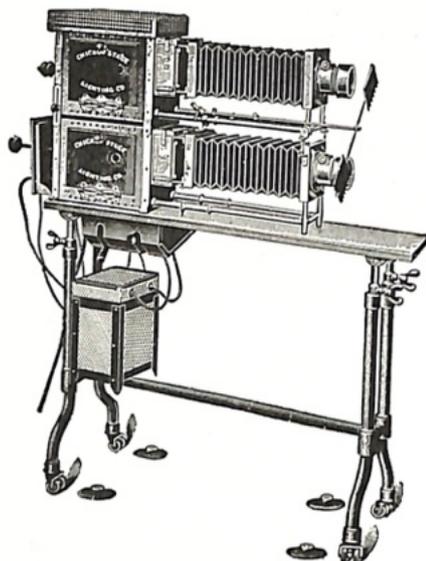
Additional parts consist of one hand feed arc lamp No. 883, one enclosed switch, 15 feet of asbestos covered wire, 25 feet of No 10 stage cable, and one 35 ampere 110 volt rheostat.

Cat. No.		Price	Code Word
520	Olivet Box, complete	\$45.00	bias

PERFECTION DOUBLE DISSOLVING STEREOPTICON

Approved Fireproof Model

Our Perfection Double Dissolving Stereopticon has established a reputation for being equipped with the most accurate adjustments and for producing the most perfect dissolving effect ever produced by an electric dissolving stereopticon.



Cat. No. 521

The dissolving effect is produced by our Special Designed Dissolving Shutter, which is operated by moving the shutter handle up or down. This operation when dissolving from one picture to the other shows two distinct pictures on the curtain, one picture appearing to fade away, while the other one is dissolving on in its place.

Each lamp house is equipped with a spring door on one side and two bottoms, the upper or false bottom being entirely independent of the lower, and is fastened to the back of the lamp house, which in turn is not fastened to the lamp house proper, so that the back and upper bottom can be pulled out entirely from the lamp house. Fastened to the upper bot-

tom is a special quick hand-feeding track, upon which is mounted a 90 degree arc lamp that can be tilted to any angle and is made so that each carbon can be fed separately or both together.

For those not requiring a dissolving stereopticon, we recommend our single stereopticon, consisting of only one high single lamp house. Each outfit listed below is complete in every detail and is mounted on a metal covered adjustable iron pipe table that can be raised or lowered instantly. This table can be had equipped with floor flanges for fastening solid to the floor or with casters for moving around.

Cat. No.	Price	Code Word
521	\$250.00	bide
522	150.00	bids

STUDIO LAMPS

Hand Feed Type

Our Studio Lamps are without a doubt the very best on the market, having proved same by actual test and work under the most trying conditions. As further evidence we can refer you to most of the largest film manufacturers in the country who have equipped both their studios and traveling companies with our lamps.



Cat. No. 523

Our lamps produce an artificial light almost equal to daylight, which does not vary in strength all the time they are in use. The carbons burn at right angles to each other (90 degrees), giving 19 per cent (actual test) more light than any other lamp burning the carbons straight up and down (180 degrees), both burning under the same conditions.

The feeding mechanism is entirely enclosed with sheet steel and is mounted to a case aluminum frame. The carbons are enclosed in a ventilated sheet-iron hood with a wire screen front, so as to pass rigid inspection laws.

Each lamp is mounted on a telescopic wrought iron adjustable stand, so that it can be raised, lowered or tilted to any angle, and is equipped with 1 35 ampere rheostat for 110 volts, 1 enclosed knife switch, 12 feet of asbestos covered wire and 25 feet of stage cable.

Cat. No.	Price	Code Word
523	\$60.00	bird

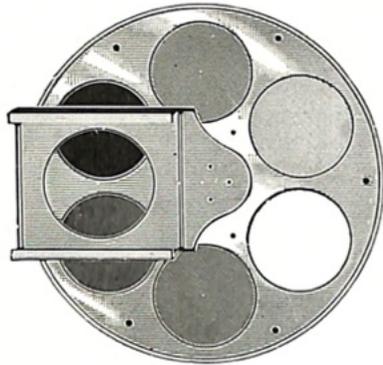


LENSE ADAPTING RINGS

We make up 3 sizes of aluminum adapting rings for the purpose of holding small lenses in larger spot lense openings.

Cat. No.	Price	Code Word
524	\$1.25	bite
525	1.25	bits
526	1.25	bled

COLOR WHEELS



Cat. No. 527



Cat. No. 529

We make up two types of color wheels for spot lights. One type which is revolved by hand and the other which is motor driven.

These color wheels are made of galvanized sheet iron 21 inches in diameter with six color openings. The wheel is mounted on a frame arrangement that will fit in any of our large size type of spot lamps.

Our motor driven type of color wheels are equipped with a speed control and a universal electric motor so that they will operate on both direct and alternating current.

Cat. No.		Price	Code Word
527	Color Wheel, hand control, with 6 colors.	\$ 5.50	blot
528	Color Wheel, hand control, with 6 colors for 8 in. spot lamps.	11.00	blow
529	Color Wheel, motor driven, with speed control and 6 colors.	55.00	blue

COLOR BOX ATTACHMENT



Our Color Box Attachment is made of metal and is equipped with two slide runners, so that it can be slipped on or off very quickly to our spot lamps. Each box contains six color slides, each slide being operated from the outside by pulling a string, which pulls up in place before the light, any color you may desire to show.

Cat. No.		Price	Code Word
530	Color Box with 6 in. opening with 8 in. color slide.	\$18.00	blur
531	Color Box with 8 in. opening with 10 in. color slide.	22.00	boar

**IRIS SHUTTER
For Spot Lamps**

Our Iris Shutter or Dissolver consists of an iron frame with Iris diaphragm leaves made of brass, mounted in same. The diaphragm leaves are controlled by a hand lever, so that the opening can be made large or small.

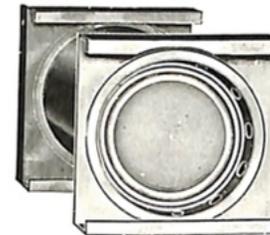


These shutters can be used to an advantage on spot lamps, etc., where special effective lighting is desired. The 6 inch Iris quoted below will fit any of our 5 or 6 inch spot lamps.

Cat. No.		Price	Code Word
532	Iris Shutter, 6 inch opening.	\$15.00	bobs
533	Iris Shutter, 8 inch opening.	25.00	bode

SPOT LAMP EXTENSION FRONT

On account of the great demand for a small spot field at extremely long throws, and as this calls for a long focus condenser to make this small spot field, and as most Spot Lamps are not made to draw down a long focus condenser, we have made up an extension front that can be slipped on in front of our Spot Lamps.



Cat. No. 534

This front extends the lense out so that a long focus lense can be used. When ordering state size of spot field wanted and the distance you are throwing.

Cat. No.		Price	Code Word
534	Spot Lamp Extension Front with lense.	\$7.50	body

STEREOPTICON ATTACHMENT

For Attaching to Any of Our Standard 5 and 6 Inch Spot Lamps to Project Lantern Slides

Our Stereopticon Attachment No. 535 consists of a folding spring steel bellows, fastened to a cast aluminum front and rear plate, equipped with a 5 inch lense, a 1/4 size objective lense, and 1 slide carrier.



Cat. No. 535

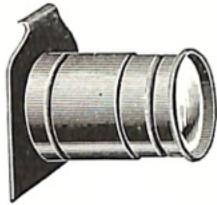
The steel bellows are self-supporting, doing away with all long rods. They will fold up to 5 inches and extend out to 18 inches, so that both short and long focus lenses can be used.

Cat. No.		Price	Code Word
535	Stereopticon Attachment, complete as above.	\$40.00	bogs

PIN SPOT FOCUSING LENSE FRONT

For Attaching to Spotlights to Project Sharp Outlined Spots

Our Pin Spot Focusing Lense Front, when attached to a spotlight into which a sheet metal slide punched with a round opening has been placed in the color frame holder, will project a sharp outlined small spot field of light at long or short distance. The size of the spot field depends on the size of the opening in the metal slide used. These fronts are made in two sizes, one to fit our standard size arc, and 250 watt up to 2,000 watt types of spotlights, and the other to fit our foot-light types of spotlights.



Cat. No.		Price	Code Word
536	Pin Spot Focusing Front, standard size...	\$7.00	bail
537	Pin Spot Focusing Front, footlight size...	7.00	bold
538	Sheet Metal Slide, 8 inches square with punched round opening.....	.75	bolt
539	Sheet Metal Slide, 6 1/2 inches square with punched round opening.....	.75	bomb

LOBSTERSCOPE

Or Flicker Effect

The Lobsterscope consists of an 18 inch disc with two special shape openings cut in same. The disc is mounted in a metal case with a handle for revolving same and the case is made so that it can be attached to any of our standard 5 or 6 inch spot lamps. The light, when projected on dancers or performers through the disc openings, which is revolved rapidly, produces a startling and weird optical illusion, as if the number of dancers or performers had been increased and as if they were moving very rapidly. Made in two styles, one with handle and shaft fastened direct to the disc and one with shaft fastened to the disc and geared to the handle so that the handle does not have to be rotated so fast.



Cat. No. 540

Cat. No.		Price	Code Word
540	Lobsterscope	\$ 8.00	bond
541	Lobsterscope with geared handle.....	12.00	bone

COLOR FRAMES FOR SPOT LAMPS

We make up three sizes of sheet metal color frames for use in the various types of spot lamps. The 6 1/2-inch square size with a 5-inch round opening will fit our small type spot lamps; the 8-inch square size with a 6-inch round opening will fit our large type of spot lamps; and the 10-inch square with an 8-inch opening will fit our 8-inch spot lamps.



Cat. No.		Price	Code Word
542	Color Frames, 5 1/2 in. square, without color, each	\$0.25	bony
543	Color Frames, 5 1/2 in. square, with color, each .....	.35	book
544	Color Frames, 8 in. square, without color, each .....	.25	boom
545	Color Frames, 8 in. square, with color, each .....	.35	boon
546	Color Frames, 10 in. square, without color, each .....	.30	boor
547	Color Frames, 10 in. square, with color, each .....	.40	boot

For Colored Sheet Gelatine See Page 53

STAGE VENTILATOR MAGNETS

We make up three types of Stage Ventilator Magnets, namely, direct current, alternating current, and battery type. On account of the alternating current type being very expensive to manufacture, the battery type is made to use instead of the A. C. type. These magnets, in case of fire, release the damper in the vent, thereby drawing the heat, fire, and smoke in and out through the vent.

Cat. No.		Price	Code Word
548	Ventilator Magnet, 110-volt direct.....	\$15.00	bore
549	Ventilator Magnet, 110-volt alternating.	68.00	born
550	Ventilator Magnet, for battery use.....	10.00	boss

VENTILATOR SWITCH BOXES

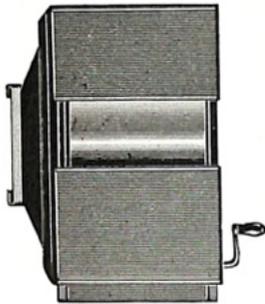
We make up a metal box with a hinged glass front door for the purpose of holding single-blade knife switch. The glass front has the word "ventilator" painted on it, and these boxes are generally placed one on each side of the stage and are used for controlling the ventilator.



Cat. No.		Price	Code Word
551	Ventilator Box, without switch.....	\$1.75	bowl

SUNRISE SUNSET COLOR EFFECT

Spotlight Attachment Type



When attached to a spotlight this color changing effect, consisting of a sheet metal case equipped with a colored mica slide, which, when raised by turning a hand lever, will produce all the colors of a sunrise effect on a drop. In a semicircular form, appearing to come up from below the horizon or hill or mountain line without showing any image of the sun. When the slide is lowered a sunset color effect is produced.

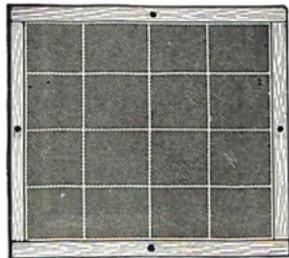
Cat. No.		Price	Code Word
552	Sunrise Sunset Color Effect.....	\$25.00	bows

SUNRISE SUNSET COLOR EFFECT

Flood or Bunchlight Attachment Type

We manufacture Colored Silk Medium Sunrise Sunset Effects consisting of five or eight colors fastened on two rollers, which are mounted in a wooden frame that will fit the grooves in front of our bunchlights or flood lamps. These colored silk mediums are used for producing a sunrise color effect, gradually blending into a sunset color effect, then gradually blending into a moonlight color effect, or vice versa. This effect is very pretty and is operated by simply rolling the colored silk medium from one roll to the other.

Cat. No.		Price	Code Word
553	Silk Roll of five colors.....	\$35.00	boys
554	Silk Roll of eight colors.....	40.00	bray



COLOR FRAMES

Our Wood Color Frames, size 18 by 20 inches, for holding colored sheet gelatines are made so that they will fit in the color frame grooves of any of our standard open face flood lamps, olivet lamps, open lamps, and bunchlights.

Cat. No.		Price	Code Word
555	Wood Color Frame without colored gelatine, each	\$0.60	bred
556	Wood Color Frame with colored gelatine (any color), each .....	.85	brew

FLASH LIGHTNING EFFECTS

We make up two types of Lightning Flashers, one a hand-operated and the other an automatic for producing lightning flashes on any part of the stage or auditorium. Both of these flashers must be used with a rheostat and below we are quoting prices on the flashers only and also complete with rheostat, cable, etc.



Cat. No. 557

On the hand-operated flasher the flash is produced by pushing down an insulated push button which makes a metal and carbon point contact. On the automatic flasher the flash is produced by a magnetic make and break control of the arc. When the switch is thrown the automatic flasher will give a series of flashes in rapid succession.

Cat. No.		Price	Code Word
557	Hand-operated Lightning Flasher, only..	\$10.00	brig
558	Hand-operated Lightning Flasher with rheostat and 25 feet of stage cable....	28.00	brow
559	Automatic Lightning Flasher, only.....	18.00	buck
560	Automatic Lightning Flasher with rheostat, 25 feet of stage cable and switch.	38.00	buds

STREAK LIGHTNING SLIDES

We make up streak lightning slides to be used in stereopticons for projecting zigzag streaks of lightning. These slides are 3 1/4 x 4 inches and are made of German silver with very fine thin zigzag streaks cut in same. We carry these slides made up in six different streak designs.

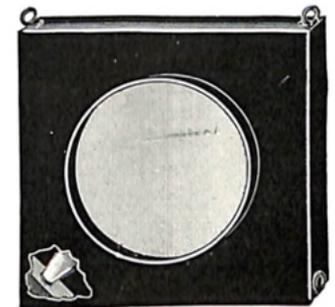
Cat. No.		Price	Code Word
561	Streak Lightning Slide with 1 design, each.	\$2.00	buff

MOON BOX

Moon Box, for use behind a transparent drop, consists of a 20-inch square 3-inch deep sheet iron box, with a 12-inch round opening, which is illuminated by four concealed lamps. We also make a small brass windlass for raising or lowering a Moon Box.



Cat. No. 563



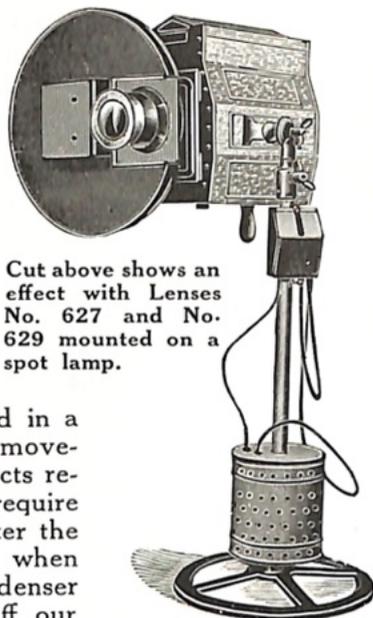
Cat. No. 562

Cat. No.		Price	Code Word
562	Moon Box, without stage cable or lamps.	\$12.00	bugs
563	Moon Box Windlass only.....	5.00	bulb

ELECTRIC STAGE EFFECTS



Cut to left shows our effect with Lense No. 626 and No. 629 attached.



Cut above shows an effect with Lenses No. 627 and No. 629 mounted on a spot lamp.

All of our effects are original and are equipped with every mechanical and optical contrivance known that will project an effect as realistic as possible. Our effects are generally made on a single mica disc, 18 inches in diameter, enclosed in a sheet iron case, and operated by a clock movement from the center. Where certain effects require 2 discs in one case, or where others require two machines, we specify same below, after the title name of such effects. Each effect, when equipped with one of our Sciopticon Condenser Holder No. 629 can be slipped on or off our standard 5 or 6-inch spot lamps very quickly.

As there are many who may use two or more effects, but not all at the same time, they can no doubt get along with only one set of lenses, by using this one set on all the effects. For this reason we quote prices below on our effects complete without Sciopticon Condenser Holder No. 629 and Sciopticon Objective No. 626. The effects as quoted below include the effect painted on a mica disc, which is enclosed in a metal case, and a clock movement, which is also enclosed in a metal case.

Cat. No.	Price	Code Word
564	Avalanche Effect \$ 85.00	bulk
565	Aeroplanes Flying 100.00	bull
566	American Flag Waving 40.00	buoy
567	Aurora Borealis Rays (8 in. double disc) . 75.00	burn
568	Blizzard Effect 85.00	bury
569	Burning Forest 95.00	bush
570	Climbing Monkey 110.00	bust
571	Crawling Spiders (for 2 machines) 90.00	busy
572	Cyclone 80.00	buys
573	Cyclone with flying objects (double disc) 120.00	buzz
574	Electric Fountain Effect 95.00	cabs
575	Falling Flowers 120.00	cads
576	Falling Leaves 120.00	cafe
577	Falling Roses 120.00	cage
578	Falling Star (hand movement) 15.00	cake
579	Fireworks Effect 85.00	calc
580	Flame Effect 80.00	calm
581	Flowing Water 80.00	cane

ELECTRIC STAGE EFFECTS

(Continued)

Cat. No.	Price	Code Word
582	Flying Angels \$120.00	cans
583	Flying Birds 120.00	cape
584	Flying Butterflies 120.00	card
585	Fog Effect 80.00	care
586	Great Tidal Wave 80.00	carp
587	Inferno (double disc) 120.00	cars
588	Jumping Insects 90.00	case
589	Lightning Zigzag (3 metal slides, shutter) 30.00	cash
590	Midnight Sun (2 5-inch discs) 120.00	cast
591	Moon Picture Slides with appearing and disappearing clouds 115.00	cats
592	Moving Clouds with disappearing moon (two machines) 115.00	cave
593	Moving Clouds with disappearing moon, appearing and disappearing between clouds 100.00	cede
594	Moving Clouds with stationary moon.... 85.00	ceil
595	Moving Fleecy Clouds 95.00	cell
596	Moving Fire Clouds 95.00	cent
597	Moving Panorama 90.00	chap
598	Moving Storm Clouds 95.00	char
599	Moving Sunset Clouds 95.00	chef
600	Niagara Falls Effect with slide 95.00	chic
601	Ocean Ripple (3 painted mica slides) 65.00	chin
602	Ocean Waves 85.00	chip
603	Prairie Fire 95.00	chop
604	Rainbow Prism Effect 130.00	chug
605	Rain Effect 85.00	chum
606	Rain Effect with Driving Clouds (2 machines) 170.00	cite
607	Rain of Ashes 85.00	clad
608	Rising Fire and Smoke 85.00	clam
609	Rising Mist (mica slides) 65.00	clap
610	Rising or Setting Moon (hand feed) 25.00	claw
611	Rising or Setting Sun (hand feed) 25.00	clay
612	Rolling Lava 80.00	clew
613	Running Water 85.00	clip
614	Sand Storm Effect 85.00	clog
615	Smoke and Flames 85.00	clot
616	Snow Effect 75.00	club
617	Snow Storm (2 machines) 150.00	clue
618	Swimming Fish Effect 85.00	coal
619	Twinkling Moon Effect (comical) 20.00	coat
620	Twinkling Stars (with clock works) 55.00	code
621	Volcano Effect (3 effects for 3 machines) 245.00	cogs
622	Volcano Eruption 85.00	cold
623	Waterfall 85.00	colt
624	Water Ripple 60.00	coma

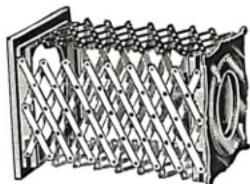
If any of the above effects are desired with motor instead of clockworks add \$40.00 to above prices

MOTOR-DRIVEN EFFECT CASES

Our Air-Cooled Motor-Driven Electrical Stage Effect Cases, equipped with speed control for operating on direct or alternating current, are made for operating effect discs used continuously.

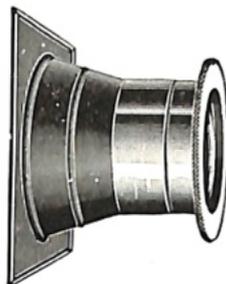
Cat. No.	Price	Code Word
624A	Motor-Driven Effect Case, complete, no disc. \$72.50	comal

IMPROVED SCIOPTICON OBJECTIVES



Cat. No. 626

Our Improved Sciopticon Objective for projecting our Electric Stage Effects is far superior to the old style, cone-shaped sciopticon objectives. When using the old style objective, to make the same size picture at various distances, it necessitated going to the great



Cat. No. 627

expense of purchasing and carrying objectives for each of the various distances, whereas with our new style it requires only one objective and a few assorted focus 3 1/2-inch sciopticon lenses, which are not expensive. The focusing arrangement on our new style is adjustable so that any focus sciopticon lens can be used. Below we quote prices on the different focuses and when ordering state focus desired, or tell us the size of stage opening or drop you wish to cover and the distance between the machine and drop, so that we can send the correct focus objective.

Cat. No.	Price	Code Word
625	Improved Sciopticon Objective, 4-inch focus \$35.00	comb
626	Improved Sciopticon Objective, 6-inch focus, or any of the following focuses: 8, 10, 12, 16, 18, or 20-inch. 20.00	come
627	Old Style Cone-Shape Sciopticon Objective, any focus between 8 and 20 inches 12.00	cone
628	Sciopticon, 3 1/2-inch diameter lenses, 6, 8, 10, 12, 16, 18, or 20-inch focus. Per pair 2.00	coop

SCIOPTICON CONDENSER HOLDER NO. 629



Cat. No.	Price	Code Word
629	Sciopticon Condenser Holder \$8.50	cope

Our Sciopticon Condenser Holder No. 629 consists of one 5-inch condenser mounted in an aluminum casting which is equipped with two sets of grooves. One set of grooves is used for slipping the holder on to our spot lamp and the other set is used for slipping an Electric Stage Effect into. No effect can be used on our spot lamps without using one of these condenser holders.

CONDENSING LENSES

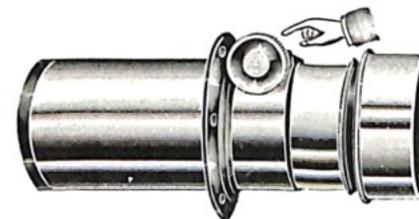


Our Condensing Lenses are made to use in spot lamps, stereopticons, moving picture machines and enlarging machines, and are made of the best optical ground glass so as to allow the greatest amount of illumination to pass through them.

Below will be found a list showing the different focuses we carry in the different size condensers, also the prices on same. When ordering be sure to state focus of condenser desired.

Cat. No.	Diameter of Lens	Focus in Inches	Price	Code Word
630	3 1/2 Inches	6 1/2, 7 1/2, 8, 9, 10, 12, 14, 16. . .	\$ 1.00	cops
631	4 1/2 "	6 1/2, 7 1/2, 8, 9, 10, 12, 14, 16. . .	1.10	cord
632	5 "	5 1/2	3.50	core
633	5 "	7, 9, 10, 12, 14, 16.	1.80	cork
634	6 "	9, 10, 12, 14, 16.	2.50	corn
635	6 "	7	4.40	cost
636	8 "	10, 12, 16, 18.	6.50	cove
637	10 "	12	15.00	cowl
638	12 "	18	28.00	cows

ADJUSTABLE STEREOPTICON OBJECTIVE

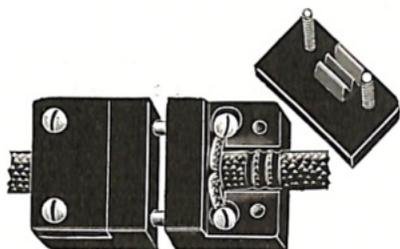


This new Adjustable Stereopticon Objective is made so that all that is necessary to make a change in the size of the picture projected on the screen or drop is to simply turn the rack and pinion thumb screw and focus by moving the stereopticon front forward or back. We recommend the use of this objective on effects when projected from the balcony or long distances.

This adjustable objective has a focus range of 9 to 22 inches and will project a greater number of different size pictures than a great number of the standard fixed focus objectives would do.

Cat. No.	Price	Code Word
639	Adjustable Stereopticon Objective. \$45.00	crab

SLIP CONNECTORS
Underwriters Approved



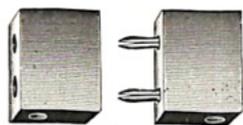
Cat. No. 642



Cat. No. 648



Cat. No. 643



Cat. No. 652

Our slip connectors are all made of solid black fibre with strong and heavy contacts. All live connection points are embedded and enclosed in the fibre so as to pass the most rigid inspection laws. The male and female ends of all of our connectors are equipped with a teeth clamping cover device for gripping the outer insulation or covering of stage cable or wire, thereby taking the strain off the binding screws or connections. The 5-ampere, 15-ampere, and 30-ampere connectors are made up in three ways, namely, one in which both the male and female ends are each equipped with a two-hole asbestos-covered wire grip and one in which both the

male and female ends are equipped with a single-hole stage cable grip and one in which the male end is equipped with a two-hole asbestos-covered wire grip and the female end with a single-hole stage cable grip. The male and female ends on the 60-ampere, 100-ampere, and 200-ampere connectors are each equipped with a single-hole stage cable grip. The 60-ampere, 100-ampere, and 200-ampere connectors are made so that the polarities are non-reversible and they are specially adapted for use in charging storage batteries, etc. They will withstand rough usage as the center of the connector is completely covered with an aluminum casting which also covers and protects the male pins when connector is separated. Our connectors are all made for use on a two-wire circuit of any voltage up to 250 volts.

With Grips for Stage Cable

Cat. No.	Ampere	For Wire	Weight	Price	Code Word
640	5	No. 14	4 oz.	\$ 1.10	crag
641	15	No. 12	6 oz.	1.50	cram
642	30	No. 10	10 oz.	2.40	crew
643	60	No. 6	18 oz.	6.00	crib
644	100	No. 2	40 oz.	10.50	crow
645	200	No.000	96 oz.	19.80	cube

SLIP CONNECTORS

(Continued)

With Grips for Asbestos-Covered Wire

Cat. No.	Ampere	For Wire	Weight	Price	Code Word
646	5	No. 14	4 oz.	\$1.10	cubs
647	15	No. 12	6 oz.	1.50	cues
648	30	No. 10	10 oz.	2.40	cuff

With Grips for Asbestos and Stage Cable

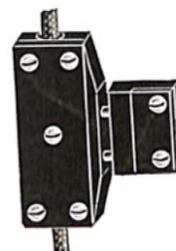
Cat. No.	Ampere	For Wire	Weight	Price	Code Word
649	5	No. 14	4 oz.	\$1.10	cult
650	15	No. 12	6 oz.	1.50	cups
651	30	No. 10	10 oz.	2.40	curb

LOW VOLTAGE CONNECTOR

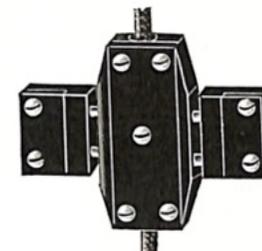
For Battery Use

Cat. No.	Ampere	For Wire	Weight	Price	Code Word
652	10	No. 18	1 oz.	\$0.60	cure

BRANCH OFF CONNECTORS



Cat. No. 653

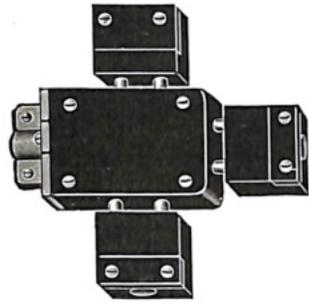


Cat. No. 654

This type of connector was designed specially for making one or more connections from one main feed stage cable without cutting or splicing same, thus doing away with any possibilities of short circuits. These connectors are made of solid black fibre and the branch off block or male end is the same size as used in our regular 5-ampere connectors, so that they will interchange with this connector. These connectors are indispensable for use on the stage or window lighting on account of the many uses they can be put to, some of which are, for connecting up small lamps, music stands, fans, garlands, scene brackets, etc. These are made in two styles, one with a single branch off block, and the other with a double branch off block. They can be used on a two-wire circuit of any voltage up to 250 volts.

Cat. No.	Branch Off	Ampere	Weight	Price	Code Word
653	Single	5	6 oz.	\$2.75	curs
654	Double	5	8 oz.	3.50	curt

MULTIPLE CIRCUIT CONNECTORS



Our Multiple Circuit Connectors are made so that three separate connections can be taken from one stage cable lead. They are made in two sizes, 5 and 15 amperes, and they are interchangeable with our regular 5 and 15-ampere connectors. The three male ends furnished with each connector are single hold cable end grips unless otherwise specified.

Cat. No.	Ampere	For Wire No.	Weight	Price	Code Word
655	5	No. 14	12 oz.	\$3.60	cute
656	15	No. 12	20 oz.	5.00	cuts

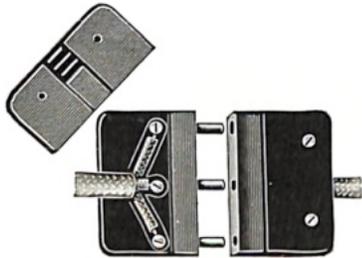
BX ARMORED CABLE CONNECTOR



This connector is our standard size, two-wire, 15-ampere slip connector equipped with aluminum end pieces designed so as to grip securely No. 14 BX flexible steel armored cable. For use on any voltage up to 250 volts.

Cat. No.	Ampere	Weight	Price	Code Word
657	15	10 oz.	\$3.30	czar

THREE-WIRE CIRCUIT CONNECTORS



This type of connector was designed specially for use on a three-wire circuit of any voltage up to 250 volts. These connectors are made of solid black fibre and the polarities are non-reversible with the exception of the 5 and 15-ampere sizes, which are reversible. Made up in five sizes.

Cat. No.	Ampere	For Wire No.	Weight	Price	Code Word
658	5	No. 14	1/2 lb.	\$2.40	dabs
659	15	No. 14	3/4 lb.	3.60	dale
660	30	No. 10	1 1/2 lb.	5.00	dame
661	60	No. 6	1 3/4 lb.	7.00	dare
662	100	No. 2	3 1/2 lb.	19.80	dark

FUSES

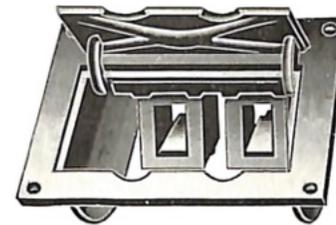
Cat. No.	Price Each	Code Word
663	Cartridge NEC Fuses, 10 to 30 amperes . . . \$0.20	darn
664	Cartridge NEC Fuses, 35 to 60 amperes30	dart
665	Link Fuses, 2 1/2" centers, 5 to 30 amperes . .06	dash
666	Link Fuses, 2 1/2" centers, 35 to 60 amperes .08	data
667	Plug Fuses, 5 to 30 amperes07	date

When ordering please specify amperes desired.

STAGE FLOOR POCKETS

Underwriters Approved

Our Stage Floor Pockets are considered the best on the market. They consist of a cast iron box equipped with a surface plate (that fits flush with the floor), provided with a hinged, self-closing cable notched door, so that it is always closed whether in use or not. A knockout is provided in the bottom of the box for one-inch conduit. These boxes are made in four sizes, namely, to hold one, two, three or four of our No. 690 receptacles and No. 688 plugs. These boxes are made to use on a two-wire circuit of any voltage up to 250 volts.



Cat. No. 669

Cat. No.	Price	Code Word
668	Stage Floor Pocket with one receptacle and plug \$10.00	daub
669	Stage Floor Pocket with two receptacles and plugs 20.00	days
670	Stage Floor Pocket with three receptacles and plugs 30.00	daze
671	Stage Floor Pocket with four receptacles and plugs 40.00	deaf
688	Plug only to fit above pockets 2.00	deal

FLUSH WALL POCKETS

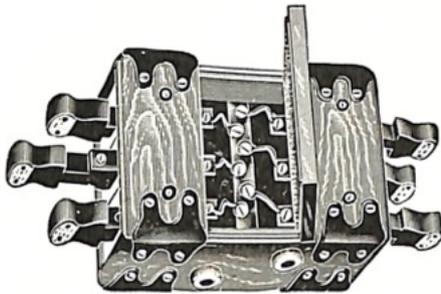
Underwriters Approved

Our Flush Wall Pockets consist of an iron box equipped with a cast iron flush wall plate provided with a hinged drop door. These boxes are made in four sizes, namely, to hold one, two, three or four of our No. 690 receptacles and No. 688 plugs. These boxes are made to use on a two-wire circuit of any voltage up to 250 volts.



Cat. No.	Price	Code Word
672	Flush Wall Pocket with one receptacle and plug \$10.00	dean
673	Flush Wall Pocket with two receptacles and plugs 20.00	dear
674	Flush Wall Pocket with three receptacles and plugs 30.00	deck
675	Flush Wall Pocket with four receptacles and plugs 40.00	deed
676	Flush Wall Pocket with detachable brass face plate and one receptacle and plug 11.50	deem
688	Plug only to fit above pockets 2.00	deal

PORTABLE STAGE OR SPIDER POCKET CASE



Cat. No. 679

Our Portable Stage or Spider Pocket consists of a strong wooden case bound with cast aluminum plates, with two swing doors, one on each side. Each door opens to a cartridge fuse plate of 10 to 30-ampere capacity, which, with the pockets or receptacles in both ends of the case, are lined with slate and asbestos, making it impossible to short circuit, fireproof and indestructible.

Each pocket or receptacle is fused separately with cartridge fuses, and is equipped with an inserting plug to which wire terminals are connected.

These boxes are all made to operate on a two-wire circuit of any voltage up to 250 volts.

Cat. No.		Price	Code Word
677	Plugging Box, 2 pockets with plugs.	\$14.00	deer
678	Plugging Box, 4 pockets with plugs.	27.00	defy
679	Plugging Box, 6 pockets with plugs.	40.00	dens
680	Plugging Box, 8 pockets with plugs.	54.00	dent
681	Plugging Box, 10 pockets with plugs.	67.50	deny
682	Plugging Box, 12 pockets with plugs.	81.00	desk
688	Plug to fit the above boxes.	2.00	deal



IRON PANEL POCKETS

Our approved type of iron panel pockets consists of two or more of our 50-ampere porcelain receptacles and plugs mounted on a slate panel with two or three wire main bus bars and furnished with link or cartridge fuses wired complete, all enclosed in an iron cabinet with a snap lock hinged door.

For Two-Wire Circuit Up to 250 Volts.

Cat. No.		Price	Code Word
683	Two-outlet panel box with plugs.	\$ 28.00	dice
684	Four-outlet panel box with plugs.	64.00	dies
685	Six-outlet panel box with plugs.	100.00	diet

Panel Boxes with greater number of outlets made to order. When ordering state whether Link or Cartridge Fuses are desired.

STAGE FLOOR POCKETS



This floor pocket, designed specially for holding our porcelain receptacle No. 691 and plug No. 689, consists of an open bottom sheet iron box equipped with a cast iron floor top with a cable notched hinged drop door.

Cat. No.		Price	Code Word
686	Stage Floor Box without receptacles or plugs	\$8.00	digs
687	Iron Floor Top only, no iron box.	1.50	dike

For prices on No. 689 Plug and No. 691 Receptacle see below.

STAGE PLUGS AND RECEPTACLES



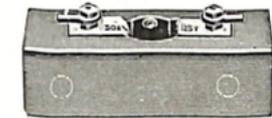
Cat.No. 689



Cat. No. 688



Cat. No. 690



Cat. No. 691

Cat. No.		Price	Code Word
688	Fibre Stage Plug, will fit any of our approved types of wall pockets, floor pockets, plugging boxes, or receptacles.	\$2.00	deal
689	Wood Stage Plug, designed to fit No. 691 receptacle	1.25	dime
690	Porcelain Receptacle, 2-wire, 250-volt, 50-ampere capacity, same as used in our approved type of wall pockets, floor pockets or plugging boxes. (No. 688 Plug will fit in this receptacle)	2.00	dims
691	Porcelain Receptacle, 2-wire, 125-volt, 50-ampere capacity. (No. 689 Plug will fit this receptacle)	2.25	dine

RADIUM GLOW

Our Radium Glow liquid, which has been used with great success by large theatrical producers, is the result of deep study in chemistry. This liquid can be applied (dipped or painted or sprayed) on any fabric or material (costumes, scenery, properties, in fact anything) and after the drying process has taken place (probably 5 minutes) the most trained eye cannot detect or distinguish where the liquid has been applied. It will not stiffen the finest fabric and the application is so simple that an inexperienced person may apply it successfully.

The purpose of applying Radium Glow liquid on material, or fabric, etc., is to make the article (that has been applied, when placed in the dark, to register in a strong glowing light. This effect cannot be produced unless the object to register in the dark is in the rays of light projected from a spotlight in which one of our Radium Filtered Glass has been placed. We can furnish Radium Glow liquid in all colors except purple, which is the color emitted from the Radium Filtered Glass. The green white is by far the most brilliant and readily registering color on the market. We can also furnish our Radium Glow liquid with a different consistency and solution that is perfectly harmless to be used on the body, face, or hair.

Owing to the excessive heat given by some spotlights and to insure the Radium Filtered Glass from breaking, we recommend the use of our Radium Glass Water-Cooled Reservoir, which is made so that it can be easily washed and cleaned.

Cat. No.		Quart Price	Gal. Price	Price	Code Word
692	Radium Glow, green white . . .	\$10.00	\$35.00		dint
693	Radium Glow, any color	12.50	45.00		dips
694	Radium Filter Glass, only			\$14.00	dire
695	Radium Filter Glass with water-cooled reservoir . .			20.00	dirk

RADIUM PAINT

Our Radium Paint is applied as one would paint and articles coated with Radium Paint will register in the dark without the use of spotlight or filtered glass, as all that is necessary to charge same is to simply hold the applied article in a strong light for a few minutes, after which it will register in the dark.

Cat. No.		Price	Code Word
696	Radium Paint, purple, per oz.	\$1.50	dirt
697	Radium Paint, any other color, per oz. . .	3.00	disc

COLORED SHEET GELATINE

We carry a full stock of imported colored sheet gelatine mediums, twenty by twenty-four inches, on hand at all times. If you do not find the shade you want listed below, write us, as we are always adding new shades to our stock. When ordering state catalog and shade number.

When remitting for gelatines ordered shipped by parcel post, be sure to include enough to cover postage, otherwise we will ship by express. Not responsible for gelatines shipped ordinary parcel post.

Cat. No.		Price	Code Word
698	Gelatines, any shade, per sheet	\$ 0.20	dish
699	Gelatines, in lots of 100 sheets	18.00	disk

Shade No.	Code Word	Shade No.	Code Word
A	Clear	M	Heliotrope
B	Frosted	N	Purple
C	Straw	O	Dark Purple
D	Canary	P	Green
E	Amber	Q	Dark Green
F	Dark Amber	R	Daylight Blue . . .
G	Orange	S	Steel Blue
H	Pink	T	Purple Blue
I	Dark Pink	U	Green Blue
J	Red	V	Light Blue
K	Dark Red	W	Blue
L	Magenta	X	Dark Blue

On all orders for gelatine less than \$3.00, a packing charge of 15 cents will be made. Do not send personal checks, but remit in Chicago funds, express or postal money orders.

Packing Weight of —	10 sheets	25 sheets	50 sheets	100 sheets
	1 lb.	2 3/4 lbs.	5 1/2 lbs.	10 lbs.

Send for Our Free Sample Book Showing Gelatine Colors.

GELATINE CARRYING CASES

We manufacture and carry in stock three styles of sheet metal carrying cases for holding gelatine sheets. One of these carrying cases will be found to be convenient and profitable, as it will keep the gelatine sheets from getting dry and brittle. It is especially fine for traveling shows.

Cat. No.		Price	Code Word
700	Round Metal Tube, 3x22 inches	\$1.00	dray
701	Box Shape Metal Case, 21x25, 1 inch deep	2.75	dreg
702	Box Shape Metal Case, 21x25, 1 inch deep with a hinged top and hasp	4.00	drew

COLORING

For Incandescent Lamps



Our Transcolor, Permaglow and Weatherfast Coloring Solutions for coloring incandescent globes are made to cover all conceivable purposes and conditions. By reading over the descriptive matter given below on each of these coloring solutions you will find the exact coloring for your particular needs. We do not ship coloring solutions by parcel post.

TRANSCOLOR

Our Transcolor Solution is a transparent coloring made specially for coloring lamps used indoors. Can also be used outdoors on lamps that will be in use for a short period of time. To color, the lamp is simply dipped in the solution (with the current turned on) and instantly withdrawn, and drying immediately, which process produces a beautiful brilliant color that gives the lamp the appearance of being made of transparent colored glass. The colors are all durable and will not peel, crack or chip off. Our frosting is a semi-transparent frosted white and our White Opal is a semi-opaque milk white opal finish. Our Pink Frosted is also known as Dubarry Pink. We also carry a Transcolor Colorless Solution for toning down any of our standard stocked colors listed below. Special colors made up to order.

Transcolor is put up in 1/2 pints, pints and quart bottles. Each bottle is set in a tin dipping cup packed in a paper carton. One quart will color about five hundred 40-watt lamps.

Cat. No.	Transcolor	Price, 1/2 Pint	Price, Pint	Price, Quart	Code Word
703	Amber	\$1.00	\$1.75	\$3.00	drip
704	Blue	1.00	1.75	3.00	drop
705	Blue Moonlight	1.00	1.75	3.00	drub
706	Canary	1.00	1.75	3.00	drug
707	Colorless, clear	1.00	1.75	3.00	drum
708	Frosting	.75	1.35	2.50	dual
709	Green	1.00	1.75	3.00	dubs
710	Pink	1.00	1.75	3.00	duck
711	Pink Frosting	1.00	1.75	3.00	duds
712	Purple	1.00	1.75	3.00	duel
713	Red	1.00	1.75	3.00	dues
714	White Opal	1.00	1.75	3.00	duet

COLORING—(Continued)

PERMAGLOW

Our Permaglow solution is a semi-transparent opalescent coloring with just enough color density to hide the lamp filament and eliminate all glare. This coloring, on account of its brilliant contrasting color tones and weather-resisting qualities (lasting several months when used outdoors), is specially adapted for globes used in signs and other outdoor uses. To color, the lamp (with the current turned on) is simply dipped in the solution and instantly withdrawn and allowed to dry for about three minutes. This process produces a hard, smooth, polished colored glow surface that even in the daytime, with the current turned off, gives the appearance as if the lamp was burning.

These colors are also very fine for globes used in interior and home decorations. We recommend the use of our colorless Thinner solution for thinning Permaglow, which has thickened on account of evaporation. Permaglow is put up in pint and quart size friction top cans, which act as a dipping cup. One quart will color about three hundred 10-watt sign lamps. Other colors not listed below made to order.

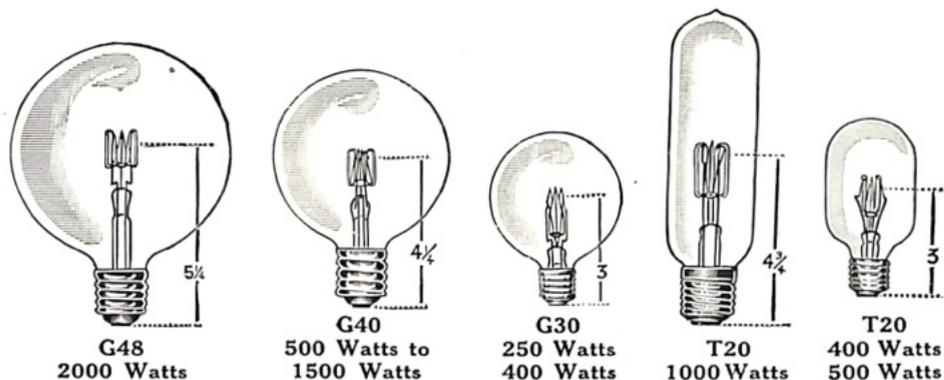
Cat. No.	Permaglow	Pint, Price	Quart, Price	Code Word
715	Apricot	\$1.85	\$3.50	duke
716	Blue	1.85	3.50	dull
717	Canary	1.85	3.50	duly
718	Green	1.85	3.50	dumb
719	Golden Yellow	1.85	3.50	dump
720	Pink	1.85	3.50	dusk
721	Red	1.85	3.50	dust
722	Thinner, Colorless	1.10	2.00	duty
723	White Opal	1.85	3.50	dyes

WEATHERFAST COLOR

Our Weatherfast Color is a semi-transparent, non-fading, weather-proof, hold fast solution, made specially for coloring lamps used outdoors. This coloring is guaranteed not to blister, chip, peel or wash off during the life of the lamp. To color, the lamp is dipped cold (with no current on) and instantly withdrawn and allowed to dry for three days. Weatherfast is put up in pint and quart size friction top cans, which act as a dipping cup. One quart will color about two hundred and fifty 10-watt sign lamps.

Cat. No.	Weatherfast	Pint, Price	Quart, Price	Code Word
724	Amber	\$2.75	\$5.00	eager
725	Blue	2.75	5.00	earl
726	Canary	2.75	5.00	earn
727	Green	2.75	5.00	ears
728	Red	2.75	5.00	ease
729	White Opal	2.75	5.00	east

INCANDESCENT MAZDA LAMPS



We carry a full line of the best grade Edison Mazda globes in both the special and standard styles. We always add the new styles as soon as they are placed in the market. We are prepared to quote special prices to those who contract to purchase all their lamps from us for the period of one year. These prices depend on the quantity purchased during the year. The prices quoted below are subject to price reduction whenever made by the manufacturer.

The concentrated filament stereopticon type globes in the round bulb, G25, G30, G40, G48, and the tubular bulb, T14, T16, and T20, are made special for use in spot lamps. The pear-shape bulb, PS22, PS25, PS30, PS35, PS40, and PS52, are for use in flood lamps and border lights. The filament in our PS52 bulb is specially anchored so that the globe will burn in any position. The T8 and T10 tubular bulb listed under General Lighting Filament Type are for use in show cases, orchestra and piano lights. All other style bulbs are for general lighting.

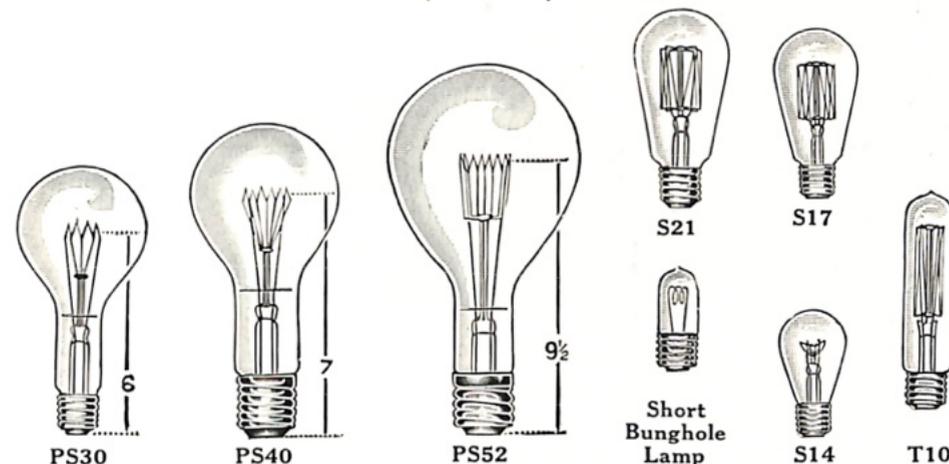
CONCENTRATED FILAMENT TYPE, 115 VOLTS

For Spot Lamps

Cat. No.	Watts	Style of Bulb	Style of Screw Base	Std. Pkg. Quantity	Price Each	Code Word
730	100	G25	Medium	24	\$ 1.00	easy
731	250	G30	Medium	24	1.75	eats
732	250	T14	Medium	24	1.65	ebbs
733	300	T16	Medium	12	2.75	ebon
734	400	T20	Medium	6	2.75	echo
735	400	G30	Medium	24	3.00	eddy
736	500	T20	Medium	6	3.00	edge
737	500	G40	Mogul	12	4.25	edit
738	1000	G40	Mogul	12	6.75	eels
739	1000	T20	Mogul	6	6.50	eggs
740	1500	G40	Mogul	12	9.00	ekes
741	2000	G48	Mogul	8	13.00	elms

INCANDESCENT MAZDA LAMPS

(Continued)



GENERAL LIGHTING FILAMENT TYPE 115 VOLTS

Cat. No.	Watts	Style of Bulb	Style of Screw Base	Std. Pkg. Quantity	Price Each	Code Word
742	10	S14	Medium	200	\$0.25	else
743	15	S17	Medium	120	.25	ends
744	25	S17	Medium	120	.25	envy
745	25	P19	Medium	120	.30	epic
746	25	T10	Medium	60	.45	ergs
747	40	T8	Medium	24	1.15	errs
748	40	S19	Medium	120	.25	ever
749	50	S19	Medium	120	.25	eves
750	60	S21	Medium	120	.30	evil
751	75	PS22	Medium	60	.45	exit
752	100	PS25	Medium	24	.45	eyes
753	150	PS25	Medium	24	.60	face
754	200	PS30	Medium	24	.80	fact
755	300	PS35	Mogul	24	1.25	fade
756	500	PS40	Mogul	12	2.00	fads
757	750	PS52	Mogul	8	3.50	fags
758	1000	PS52	Mogul	8	3.75	fail

COLORWASH

Our Colorwash for washing off and removing colorings from electric globes is most efficient, acting quickly and economical. It will not injure the hands and is put up in quart and half-gallon size cans.

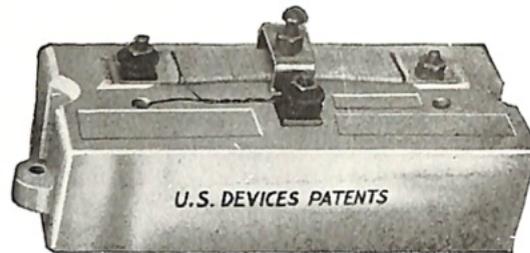
Cat. No.	Colorwash	Quart, Price	1/2-Gal., Price	Code Word
759	Colorwash	\$1.10	\$2.00	faim

MOTORLESS ELECTRIC FLASHERS

For Effective Illuminated Advertising



Cat. No. 760



Cat. No. 764

The primary objective of every illuminated sign or display lighting is Immediate Attention and for this nothing is more effective than a live, pulsating motion of light flashing on and off.

Our Flashers will produce this effect without the use of expensive mechanical apparatus or motors.

Our button shape flasher consists of small enclosed thermostat about the size of a quarter. To use this Flasher simply unscrew electric lamp from any ordinary socket, insert Flasher Button, and screw lamp back in socket. To operate turn on socket switch and in less than 30 seconds the lamp will light and flash on and off in automatic, regular, rapid and continuous flashings.

The effect on a single lamp is fascinating and in a large number of lamps all flashing in a sign or display lighting it compels immediate attention. Signs with these flashers can always be read on account of the continuous flashings. This Flasher Button will operate on any wattage lamp up to 60 watts and can be had in the slow or quick flashings. The slow is recommended for use with individual lamps and the quick for signs or lighting where there are a number of lamps.

Our higher wattage Electric Flashers, made to operate on any two-wire 100 to 125-volt light circuit, direct or alternating current, consist of a thermostat with an adjustment screw, mounted on a porcelain block. Our double circuit Flashers Nos. 766, 767, and 768 will flash alternately two circuits of lamps, one set lighted while the other is out or vice versa. Our Flashers Nos. 764 and 765 are in use by municipalities throughout the country for traffic signals.

When ordering Flashers Nos. 768, 769, and 770 state whether for alternating or direct current. For prices see page 59.

MOTORLESS ELECTRIC FLASHERS

(Continued)

Cat. No.		Size In Inches	Capacity In Watts	Price	Code Word
760	Slow Flasher..	Button	60	\$ 0.60	fain
761	Fast Flasher ..	Button	60	.60	fair
762	Flasher	2 x 5 x 2	110	2.50	fall
763	Flasher	2 x 5 x 2	220	3.00	fame
764	Flasher	2 3/8 x 6 3/8 x 2 1/2	330-440	6.75	fang
765	Flasher	2 3/8 x 6 3/8 x 2 1/2	550-660	9.00	fans
766	Flasher, 2 cir..	2 1/4 x 3 3/8 x 9 3/8	165	11.00	fare
767	Flasher, 2 cir..	2 1/4 x 3 3/8 x 9 3/8	330	10.00	farm
768	Flasher, 2 cir..	4 x 6 x 10	1100	23.00	fast
769	Flasher	4 x 6 x 10	1100	23.00	fate
770	Flasher	4 x 6 x 10	2200	29.50	feet

TWINKLING STAR EFFECT FLASHER

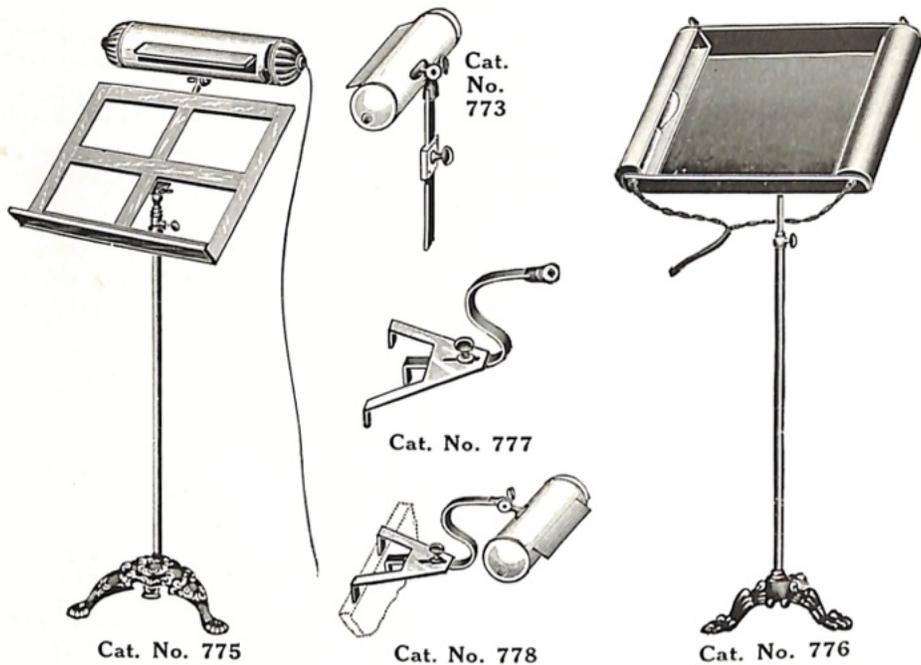
Our Twinkling Star Effect Flasher is the most modern and unique flasher ever made up. It consists of small special designed Flasher Switch Control connected to a 20-foot length of green and red covered wire cord, from which radiate (at different points) four lengths of wire cord each from 30 to 54 inches long. Attached to each of these four lengths of wire cord are two candelabra base sockets, each equipped with a 2-candle power 125-volt candelabra base lamp. In addition to the above there is a 6-foot long main feed wire lead with one end connected to the flasher switch and the other end equipped with a two-piece attachment plug for attaching to any electric light socket.

The Flasher Switch is so constructed as to give steady illumination or give flashing or twinkling effect in two, four, six, or in all of the eight lights.

This outfit is unsurpassed when used as Christmas Tree Lights because if one lamp breaks or burns out the remaining lamps will continue to twinkle.

Cat. No.		Price	Code Word
771	Twinkling Star Effect Flasher, complete as above, packed in neat box.....	\$5.50	feed
772	Candelabra Base Lamps, 2 C. P., 125 volts, any color .....	.50	fees

MUSIC STANDS AND MUSIC RACK HOODS



All of our music stands and music rack hoods are adjustable so that they can be raised, lowered, or tilted to any angle, and the light hoods are arranged to reflect a perfectly even light on the sheet music rack without casting reflections back in the auditorium. Cat. Nos. 775 and 776 each equipped with 7 feet of stage cable.

Our Music Rack Hood No. 773 consists of two 11½-inch long cylinder shape metal hoods, one telescoped into the other so that the inside hood can be revolved to regulate the height of the light opening in the hood. This adjustable light opening feature enables one to have full control as to the amount of light desired on the music rack. This Music Rack Hood is painted in a gold bronze finish and is equipped with a socket for a single lamp.

Our Leader's Music Rack Hood No. 774 consists of one of our No. 773 Hoods made in a double length 17 inches long with a longer light opening. This hood is equipped with two sockets, one in each end, and is equipped with two knuckle joint rods and grooved brass castings for mounting on the back of the music rack.

Our No. 775 Music Stand is arranged so that the oak finished wood music rack can be raised, lowered, or tilted and it is equipped with one of our adjustable Music Rack Hoods No. 773. This hood is mounted on a band-shape rod by means of a knuckle joint, so that the hood can be tilted to project the light evenly on the music rack. The rod is made to slip up or down in a grooved brass casting, which is mounted on the back of the music rack.

MUSIC STANDS AND MUSIC RACK HOODS

(Continued)

Our No. 776 Music Stand consists of an all-metal music rack equipped with an adjustable cylinder shape light hood on each side and all painted in a gold bronze finish. The two side light hoods are made so that they can be revolved, thereby giving full control as to the amount of light desired on the sheet music rack. The music rack is mounted on an adjustable black finish iron stand. Our No. 776 is used in a great many places as a Leader's Music Stand.

Our No. 777 Piano Lamp Clamp consists of an adjustable metal clamp made to fit any piano and it is painted in a gold bronze finish. The under-side of the clamp is felt lined so that it will not scratch or mar the piano in any way.

Our No. 778 Piano Lamp Hood consists of one of our No. 773 Music Rack Hoods equipped with one of our No. 777 Piano Lamp Clamps instead of the music rack fittings.

Cat. No.		Price	Code Word
773	Music Rack as above.....	\$ 3.25	fees
774	Music Rack as above.....	5.00	feet
775	Music Stand as above.....	8.00	fell
776	Music Stand as above.....	15.00	fern
777	Piano Lamp Clamp as above.....	1.25	feud
778	Piano Lamp Hood as above.....	4.50	fibs

CLEANING LIGHT STANDS

We carry in stock three styles of Cleaning Light Stands and make up other styles to order. These stands consist of a single, 4 or 6-socket cluster mounted on a ½-inch iron pipe stand 4 feet high. Below we quote prices on these stands without incandescent lamps and stage cable. For a price on stage cable for these stands we refer you to Catalog No. 847 on page 70.



Cat. No.		Price	Code Word
779	Single Light Cleaning Stand..	\$4.50	fife
780	Four-Light Cleaning Stand..	5.00	figs
781	Six-Light Cleaning Stand....	5.50	file

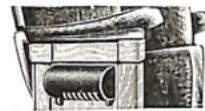
STAGE SCREWS

Our Stage Screws are packed one dozen in a box and come in two weights, the heavy or malleable with a 1 5/8 x 1/2 inch size screw finished in japanned black and the light or steel with a 1 7/16 x 3/8 inch size screw finished in japanned green.



Cat. No.		Price	Code Word
782	Malleable Stage Screws, doz.	\$2.60	fill
783	Steel Stage Screws, doz.....	4.90	find

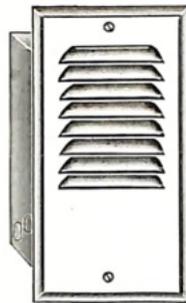
AISLE AND STEP LIGHTS



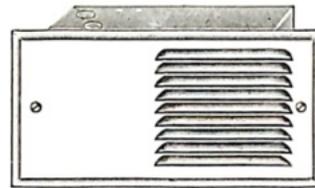
Cat. No. 784
on Seat



Cat. Nos. 784 and 785



Cat. No. 786



Cat. No. 787

Our Aisle and Step Lights are made to reflect downwards in the aisles or steps of a darkened auditorium, a soft, subdued light to enable the patrons to make their way to a seat or leave the auditorium without any danger of falling, tripping, or annoying others. Both our Aisle and Step Lights are equipped with eccentric louvers, which break up the light rays, preventing a concentrated glare and reflecting a suffused light that does not annoy the patrons or interfere with the performance.

Our Aisle Light No. 784 is small, compact, and very neat in appearance. This light is adaptable to any form of theatre seat, fitting directly under the arm of the aisle chair and is easily opened to clean or replace the globe. Each light is equipped with a patented fitting which enables easy installation of BX wiring. This light is painted a gold bronze finish and is made in both right and left seat mounting. Most of the largest Chicago theatres and others throughout the country have installed this type of aisle light, which demonstrates that this is a superior type of seat aisle light.

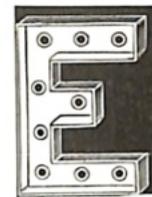
Our Aisle Light No. 786 and Step Light No. 787 each consist of a medium screw base socket mounted in a steel box 6 5/8 x 4 3/8 x 2 1/2 inches deep, equipped with a removable, white porcelain enameled louver opening front. The steel box is equipped with knockouts all around so that it is easily installed.

Aisle Light No. 786, made for mounting flush in the wall, is a vertical type generally used for reflecting a subdued lighting in the rear and side aisles.

Step Light No. 787, made to set in the step flush with the riser, is a horizontal type and is used for reflecting a subdued lighting on stairways.

Cat. No.		Price	Code Word
784	Aisle Light, right seat mounting.....	\$4.00	fine
785	Aisle Light, left seat mounting.....	4.00	fire
786	Aisle Light, wall type mounting.....	4.00	firn
787	Step Light, step riser mounting.....	4.00	furs

ELECTRIC SIGN LETTERS



Cat. No. 788



Cat. No. 789



Cat. No. 790

We carry a full stock of 16-inch high sheet metal Electric Sign Letters in three styles. Other sizes made up on short notice.

Our No. 788 Electric Letter consists of a 16-inch high letter with 2 1/2-inch deep raised edge around the complete letter. This edge confines all the light within the letter so that the light rays are projected straight out from the edge, making the letter stand out bright and luminous. This letter is mounted on an 18-inch high open face back with tongued and grooved edges for the purpose of sliding the letter on an iron band slide and butting the backs tight together.

Our No. 789 Electric Letter consists of a 16-inch high open face letter with a 1/4-inch deep raised edge around the complete letter. The sockets and wiring are entirely enclosed and the back of the letter is equipped with a Hubbel connecting plug.

Our No. 790 Electric Letter consists of a 16-inch high flat or open face letter with sockets and wiring entirely enclosed and the back of the letter equipped with a Hubbel connecting plug.

Cat. No.		Price	Code Word
788	Electric Letter (any letter), each.....	\$8.50	fish
789	Electric Letter (any letter), each.....	8.50	fist
790	Electric Letter (any letter), each.....	8.50	fits

CRYSTAL BALL

We have for rental purposes a 28-inch diameter round ball entirely covered with small, round glass mirrors, which gives the ball the appearance of being a sparkling Crystal Ball. The Crystal Ball is suspended on a rod geared to a Universal Electric Motor with speed regulator mounted on a fitting for hanging to a fixture or ceiling hook. The ball, when revolved by the motor with 4 spotlights projecting white or colored spots (just covering the ball) from 4 sides, produces a most beautiful white or colored mystifying reflection traveling in various directions all over the floor, walls and ceiling. When writing for rental prices please specify whether the ball is desired with or without spotlights and when and how long a period the equipment is desired for. Read Rental Terms on page 3 of this catalog.

Cat. No.		Price	Code Word
791	Crystal Ball on rental.....		flag

ILLUMINATED SIGNS



Cat. No. 806



Cat. No. 794



Cat. No. 793



Cat. No. 800

We make up illuminated signs of every description to cover every conceivable purpose. On account of the great variety of signs we can only illustrate and list a few of them, therefore if you will kindly write us stating your particular needs we shall be pleased to quote you prices.

Our Exit and Fire Escape Boxes are made so that either electric, gas, or spurm oil lamps can be used in them. The letters, six inches high, will not fade, peel, or wash off, as they are all etched on ruby flash glass. The boxes which are neatly designed are made of sheet metal painted a gold bronze finish. Our Round Red Globe Exit Signs, made in two sizes, six and seven inches in diameter with "EXIT" in painted letters, are made to attach to any ordinary lighting fixture, equipped with a 3 1/4-inch lamp shade holder. Made in two ways, one in which the globe hangs down from the shade holder and the other which sets up on a shade holder. For prices see page 65.

Our Edge Glow Electric Signs consist of a neat, compact, cold drawn steel or bronze moulding frame fixture, in which is mounted a heavy plate glass with the letters or designs deeply etched in on the reverse side. The sign is less than 2 1/4 inches thick at the heaviest point and is illuminated by tubular (25 watt) lamps concealed in the frame. The light is reflected and diffused through the edge of the plate glass making the letters stand out as if they were embossed. We also make these signs in opal glass with white raised letters. These signs can be had in single or double face and are made up in three ways, namely: the side wall mounting type, the desk, table or counter type, and the suspended or hanging type.

ILLUMINATED SIGNS

(Continued)

We carry these signs made up in three sizes, namely, with glass face 5 x 10 inches, 6 x 16 inches, and 8 x 24 inches. Other sizes made up to order. We can furnish any of these sizes made up with your lettering or design instead of the reading matter as we show at the same price we quote on these signs with our reading matter.

Our Edge Glow Signs as priced below are for the single face, drawn steel finish type and are complete with 8 feet of cord and attachment plug. If the bronze finish type is desired, add \$5.00 to the Edge Glow Sign prices given below. Prices on double face signs quoted on application.

Cat. No.		Price	Code Word
792	Exit Glass only, 8 x 10 inches.....	\$ 1.25	flag
793	Exit Box complete with glass.....	3.00	flat
794	Exit on 6-inch Red Globe, hanging type...	2.00	flax
795	Exit on 7-inch Red Globe, hanging type...	2.50	flay
796	Exit on 6-inch Red Globe, set up type....	2.00	fled
797	Exit on 7-inch Red Globe, set up type....	2.50	flee
798	Fire Escape Glass only, 8 x 18 inches.....	3.00	flip
799	Fire Escape Box complete with glass.....	5.00	floe
800	Edge Glow Desk Type, 5 x 10 inches, glass sign reading ARCADE or any other inscription designated by you.....	18.00	flog
801	Edge Glow Desk Type with 6 x 16-inch glass sign with your inscription.....	23.00	flow
802	Edge Glow Desk Type with 8 x 24-inch glass sign with your inscription.....	28.00	foil
803	Edge Glow Side Wall Type, 5 x 10-inch glass sign reading BOX OFFICE or any other inscription designated by you.....	18.00	fold
804	Edge Glow Side Wall Type with 6 x 16-inch glass sign with your design.....	23.00	folk
805	Edge Glow Side Wall Type with 8 x 24-inch glass sign with your design.....	28.00	fond
806	Edge Glow Hanging Type, 5 x 10-inch glass sign reading LADIES REST ROOM or any other inscription designated by you, complete with chain fixture.....	23.00	food
807	Edge Glow Hanging Type with 6 x 16-inch glass sign with your inscription.....	28.00	fool
808	Edge Glow Hanging Type with 8 x 24-inch glass sign with your inscription.....	33.00	foot

A few of our standard stock Edge Glow Signs are: INFORMATION, BALCONY, FLOOR, CASHIER, TICKETS, ENTRANCE, and OFFICE.

ILLUMINATED FLOWERS



Our Improved Illuminated Flower Sprays, artistic decorations for the home, hotels, theatres, window displays, and advertising purposes should not be confused with other cumbersome electrical flowers now on the market.

The flower head and lamps are interchangeable, washable, and are very quickly removed from the stem. The lamps are a standard telephone type lamp, platinum sealed, and if carefully handled will last indefinitely. The sprays are made from 6 inches to 36 inches high in various combinations from three to seventy-two lights and can be attractively arranged in flower baskets, ferneries, vases, etc. The flower heads can be obtained in three size rose heads of six colors, also water-lilies, chrysanthemums, and poppies, and the prices we are quoting below are for any of these styles.

Electrical garlands can be furnished in any of the above combinations with any desired spread and height. We will gladly quote you prices if you will write us as to your special requirements. Prices below are for any of the above mentioned flowers set in basket pot as shown above. When ordering state color and flower desired. Each garland or complete flower pot unit is equipped with a 6-foot wire cord and two-piece attachment plug ready for use.

Cat. No.	No. of Flowers	Length of Each Spray	Price	Code Word	
809	Illuminated Flower Pot	12	14 inches	\$12.50	ford
810	Illuminated Flower Pot	12	18 inches	14.00	fore
811	Illuminated Flower Pot	15	24 inches	20.00	fork
812	Illuminated Flower Pot	15	30 inches	24.50	form
813	Illuminated Flower Pot	15	42 inches	27.25	fort
814	Illuminated Flower Pot	30	42 inches	48.00	fowl

ILLUMINATED PORTABLE FOUNTAINS



Cat. No. 815



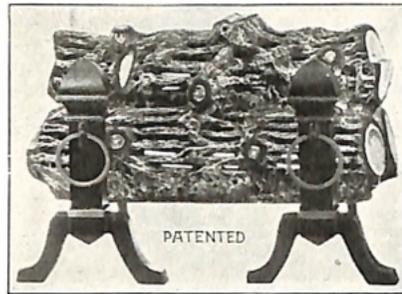
Cat. No. 816

Our Electric Illuminated Portable Fountains, made in a polychrome finish, are unusually attractive as a decoration, filling a long-felt want for a humidifier, and are small enough to be readily moved from room to room as desired. Our fountains require no water connections or piping whatsoever, as an electrically operated pump continuously circulates the same water over and over. The height of the water sprays are regulated by a small switch on the outside of each fountain.

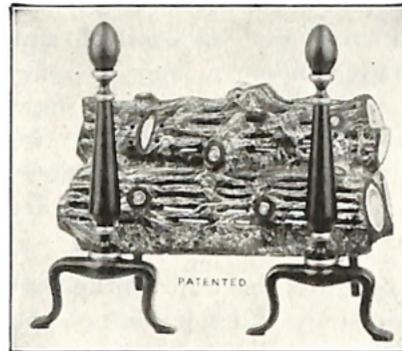
The effect of the water falling on the beautiful decorative iridescent center shade, illuminated by a small electric lamp, and splashing on the tinted art glass scalloped edge splash ring, produces a beautiful color combination. The nickel plated copper basin is set in an ornamental container on which the panel sides have a design in relief representing charming and graceful mermaids adorning themselves with jewels taken from a sunken treasure chest at the bottom of the sea. The delicate fish and seaweeds around them combine to make the action life-like and harmonizes with the water action above. The fountains can be connected to any electric light socket and the cost of the current consumed by one amounts to less than one cent per working hour. These fountains are made in two sizes, namely, 8-inch and 10-inch spray rings, and they can be had with or without a 29-inch high ornamental metal stand. They can be used to great advantage as an advertising or display medium in theatre lobbies, dining rooms, clubrooms, store windows, ballrooms, hotels, etc.

Cat. No.	Price	Code Word
815	Illuminated Fountain, 8-inch, complete \$ 80.00	force
816	Illuminated Fountain, 8-inch, complete with stand 105.00	foxy
818	Illuminated Fountain, 10-inch, complete 95.00	fray
819	Illuminated Fountain, 10-inch, complete with stand 120.00	free

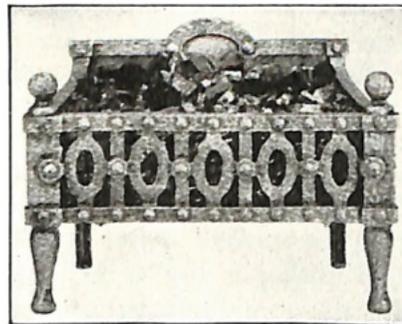
FIRE LOGS AND COAL GRATES



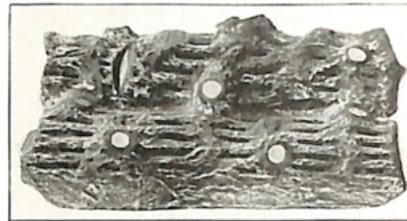
Cat. No. 821



Cat. No. 822



Cat. No. 823



Cat. No. 820

Our Fire Logs and Coal Grates present such a realistic appearance of burning fire logs and glowing coals when illuminated that they are taken to be real. All of our fire logs and coal grates are equipped with a small concealed fan that revolves (from the heat given by the two concealed globes) throwing shadows that quiver and flicker like real flame shadows. Each log and grate outfit is equipped with two porcelain two-piece sockets, 2½ feet of asbestos cord, attachment plug, and a steel handle toggle switch.

Our Fire Logs are made of terracotta equipped with a patented steel panel mounted on the back. The terracotta has been baked in a 3000-degree F. oven so that it will not take moisture, crack or flake. Each log is painted in true colors to represent a real fire log. These fire logs can be had with or without Andirons and below we are quoting prices on same.

Our Coal Grates are genuine coal grates, the only exception being that the coal bed is made of lumps of colored crystal glass. The two concealed incandescent globes when illuminated projects rays and gleams of light through the colored crystals giving a real reproduction of a glowing coal fire.

Cat. No.		Price	Code Word
820	Fire Log complete without Andirons	\$22.00	fret
821	Fire Log complete with Spanish Andirons . . .	25.00	frog
822	Fire Log complete with Colonial Andirons . .	25.00	from
823	Coal Grate complete	25.00	fuel

Heating units can be furnished for the above at an additional cost.

CARBONS

We carry a full stock of imported and domestic carbons for stage lighting, motion picture projection, and photographing for use on direct and alternating currents.

STANDARD PROJECTION CARBONS

Cat. No.	Size in Inches		Price Per 100	Price Per 1000	Code Word
824	½ x 6	Solid	\$ 3.50	\$ 31.50	full
825	½ x 6	Cored	3.80	33.25	fume
826	½ x 12	Cored	7.60	66.50	furl
827	⅝ x 6	Cored	5.00	45.00	fury
828	⅝ x 12	Cored	10.00	90.00	fund
829	¾ x 6	Cored	6.75	60.00	fuss
830	¾ x 12	Cored	13.50	120.00	gaff
831	7/8 x 12	Cored	17.75	160.00	gage
832	1 x 12	Cored	23.00	210.00	gags

WHITE FLAME PROJECTION CARBONS

Cat. No.	Size in Inches		Price Per 100	Price Per 1000	Code Word
833	⅜ x 12	Cored	\$ 7.90	\$ 63.00	gait
834	½ x 6	Cored	4.60	38.20	gala
835	⅝ x 12	Cored	13.60	119.50	gale

COPPER COATED AND SILVER TIP CARBONS

For Motion Picture Projection

Cat. No.	Size in Inches		Price Per 100	Price Per 1000	Code Word
836	5/16 x 6	Solid or Cored	\$6.70	\$60.00	gall
837	11/32 x 6	Solid or Cored	6.95	61.50	game
838	3/8 x 6	Solid or Cored	7.20	63.00	gang
839	7/16 x 6	Solid or Cored	8.00	70.00	gaol

When ordering state whether Solid or Cored.

BORDER LIGHT CABLE SUPPORTS

Our Border Light Cable Support is designed to support flexible border light cable when connected to a border light, in a curved position, so that there will be no straight bends to injure the cable when the border light is being raised or lowered.

Cat. No.		Price	Code Word
840	Border Light Cable Support	\$7.00	gape

STAGE CABLE

We carry a most complete stock of approved type extra flexible stage cable made especially for stage lighting and other purposes. In the list below we give the size (in the standard B & L gauge) of each conductor and the carrying capacity (in amperes) that each size will carry in a one hundred foot length.

Cat. No.	Size of Cable	Carrying Capacity	Price Per Foot	Code Word
841	2	90 Amp.	\$0.55	gaps
842	4	70 Amp.	.38	gars
843	6	50 Amp.	.28	gasp
844	8	35 Amp.	.19	gate
845	10	25 Amp.	.12	gave
846	12	20 Amp.	.10	gawk
847	14	15 Amp.	.08	gaze
848	16	6 Amp.	.06	gear
849	18	3 Amp.	.04	gems
850	6	100 Amp.	.45	gent
851	8	70 Amp.	.30	germ
852	12	40 Amp.	.23	gets
853	14	30 Amp.	.16	gift

BORDER LIGHT CABLE

We carry the approved type No. 12 B. & L. gauge Border Light Cable in 3, 4, 6, 8, and 10 conductors. Other sizes and combinations made to order.

Cat. No.	Price Per Foot	Code Word
854	Three Conductor, No. 12..... \$0.18	gist
855	Four Conductor, No. 12..... .24	give
856	Six Conductor, No. 12..... .36	glad
857	Eight Conductor, No. 12..... .48	glee
858	Ten Conductor, No. 12..... .60	glow

ALL RUBBER-COVERED CABLE

Our All Rubber-Covered Cable is a two conductor very flexible stranded wire cable made for hard usage and is generally used in place of stage cable where extreme flexibility is desired.

Cat. No.	Size of Cable	Price Per Foot	Code Word
859	6	\$0.77	glue
860	10	.38	glut
861	14	.22	gnaw
862	16	.15	goad
863	18	.14	goat

ASBESTOS-COVERED CABLE

Our approved type, extra flexible single conductor stranded asbestos-covered cable is noted for its lasting qualities and is specially adapted for stage lighting and motion picture equipment. Below we state the carrying capacity (in amperes) that each size will carry in a one hundred foot length.

Cat. No.	Size of Cable	Carrying Capacity	Price Per Foot	Code Word
864	2	125 Amp.	\$0.40	gods
865	4	90 Amp.	.30	gold
866	6	70 Amp.	.20	golf
867	8	50 Amp.	.15	gone
868	10	30 Amp.	.12	good
869	12	25 Amp.	.10	gore
870	14	20 Amp.	.09	gout
871	16	10 Amp.	.07	gown

COPPER LUGS OR TERMINALS



Illustrations Above Show How to Connect Wires.

Our Copper Lugs or Terminals are of the latest approved style and are made so that the wire and lug is connected together in such a manner that it cannot be pulled apart. It also does away with ragged ends and soldered connections.

Cat. No.	Price	Code Word
872	Copper Lug with 13-64-inch hole for No. 8 to 12 wire, each..... \$0.04	grab
873	Copper Lug with 17-64-inch hole for No. 8 to 12 wire, each..... .04	gram
874	Large Copper Lug with 1/4-inch hole for No. 4 to 6 wire, each..... .10	gray

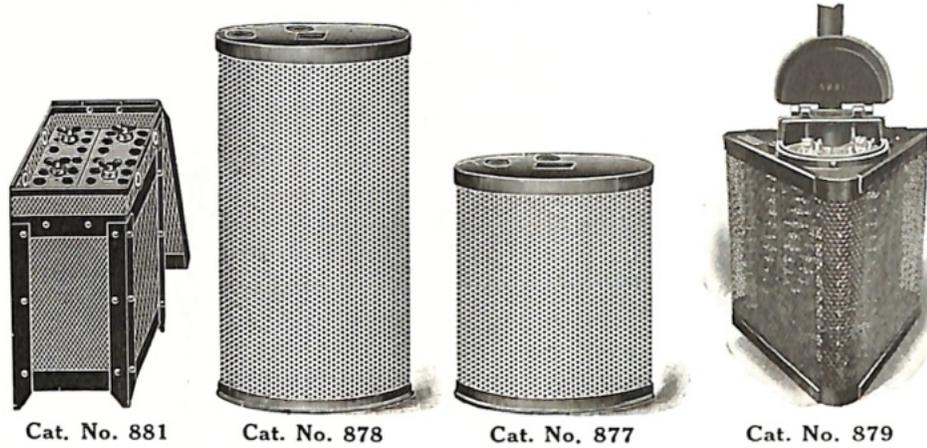
SLIDE CARRIERS



Our Wood Slide Carriers are designed to hold standard size lantern slides 3 1/4 x 4 inches in stereopticons.

Cat. No.	Price	Code Word
875	Slide Carrier for single lantern..... \$1.50	grew
876	Slide Carrier for double lantern..... 1.25	grey

RHEOSTATS



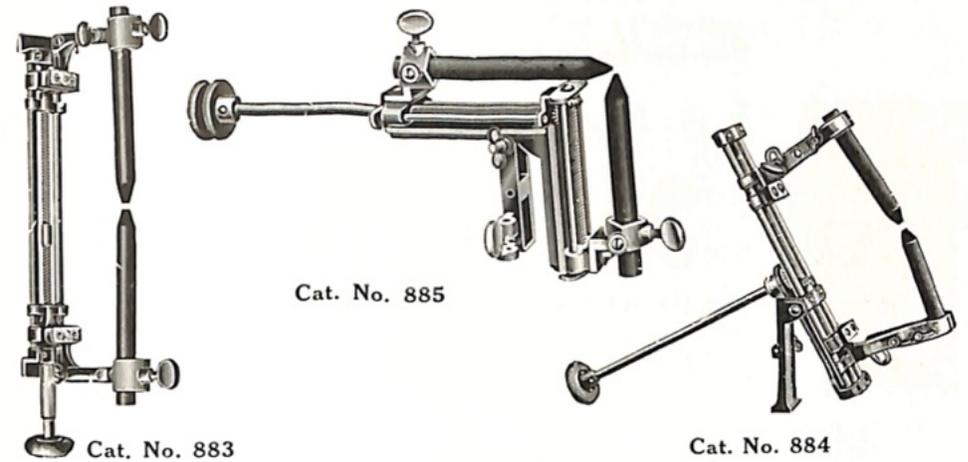
Our Standard cylinder shape fixed resistance Rheostats are made of a special high resistance wire wound on a series of porcelain spools mounted on iron rods. The rods are fastened and held in place by a top and bottom plate made of iron, with an opening in the center of each plate, so that the rheostat can be slipped on any of our wrought iron stands furnished with our stage outfits. The rheostat and all connecting posts are perfectly insulated and enclosed in a sheet metal case perforated for ventilation, making it fireproof, so that it will pass the most rigid inspection laws.

Our Standard triangle shape fixed resistance Rheostats are made in two sizes, 50 and 70 amperes, and they will fit on the iron pipe stands of stage arc lamps.

Our Standard box shaped fixed resistance Rheostats are made in two sizes, namely: No. 882, consisting of a 20-ampere 110-volt resistance enclosed in a ventilated metal case, and No. 881, consisting of two 20-ampere 110-volt resistances enclosed in a single case. This is the type we equip and use on our single and double stereopticons.

Cat. No.	Price	Code Word
877	Standard Rheostat, 35 amperes on 110 volts \$ 15.00	grid
878	Standard Rheostat, 40 amperes on 110 volts, or 22 amperes on 220 volts. 26.00	grim
879	Standard Triangle, 50-ampere rheostat on 110 volts. 60.00	grin
880	Standard Triangle, 70-ampere rheostat on 110 volts. 100.00	grip
881	Standard Box Shape, two 20-ampere rheostats for 110 volts. 20.00	grog
882	Standard Box Shape, 20-ampere rheostat for 110 volts. 12.00	grow

ELECTRIC ARC LAMPS



All of our hand feed arc lamps are made of heavy solid brass and heavily insulated away from any working joint so that the insulation cannot wear out. Each lamp is equipped with detachable carbon holders having large contacts so as to make the best connections. Arc Lamps Nos. 883 and 884 are equipped with a special screw thread that feeds the upper carbon twice as fast as the lower carbon, thereby burning the carbons so that the light is always centered with the lense. Arc Lamp No. 884 is equipped with a tilting arrangement, so that the light can always be tilted in position should it happen to burn out of center. Arc Lamp No. 883 is the lamp which we equip on all of our arc type of Open Box and Reflector Lamps, and No. 884 which we equip on all our arc Spot Lamps.

Cat. No.	Price	Code Word
883	Hand Feed Arc Lamp with handle extending from the bottom. \$15.00	grub
884	Hand Feed Arc Lamp with handle extending from the back. 17.00	gulf
885	Right Angle or 90-degree Hand Feed Arc Lamp is made for use in small lamp houses and is equipped with a triple feed, so that each carbon can be fed separately or both together. This is the lamp we use in all our Single and Double Dissolving Stereopticons. 15.00	gull

For prices on Arc Lamp Repairs see pages 74 to 76.

For prices on Carbons see page 69.

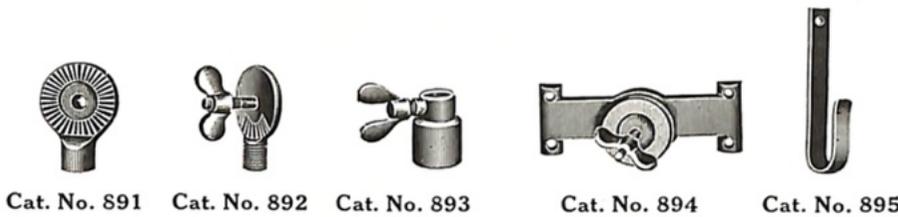
FITTINGS AND PARTS

For Our Lamp Stands and Arc Lamps

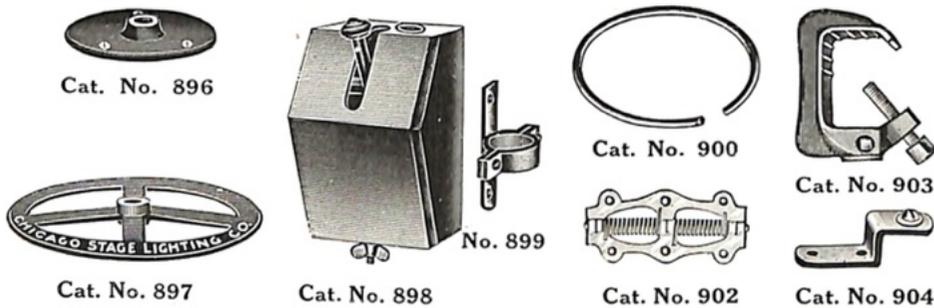
For Prices See Pages 75 and 76



Cat. No. 886 Cat. No. 887 Cat. No. 888 Cat. No. 889 Cat. No. 890



Cat. No. 891 Cat. No. 892 Cat. No. 893 Cat. No. 894 Cat. No. 895



Cat. No. 896

No. 899

Cat. No. 900

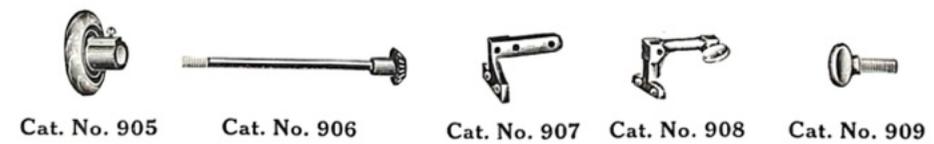
Cat. No. 903

Cat. No. 897

Cat. No. 898

Cat. No. 902

Cat. No. 904



Cat. No. 905

Cat. No. 906

Cat. No. 907

Cat. No. 908

Cat. No. 909



Cat. No. 910

Cat. No. 912

Cat. No. 914

Cat. No. 915

Cat. No. 916

Cat. No. 918

FITTINGS AND PARTS

For Our Lamp Stands and Arc Lamps

PRICES

Cat. No.	Description	Price	Code Word
886	Set Collar or Chasing Ring to fit on 1/2-inch iron pipe of stands.	\$0.60	gulp
887	Wing Nut to fit on the studs of Cat. Nos. 892 or 894 parts.	.40	gums
888	Thumb Screw to fit Cat. No. 893 Top Socket	.50	guns
889	Leather Washer to fit Cat. Nos. 892 or 894 parts	.10	gush
890	Wood Handle Grip and casting for spot lamp hoods	1.25	gust
891	Knuckle Joint to fit 1/2-inch iron pipe of stands	1.00	guys
892	Knuckle Joint with threaded 1/2-inch male end to fit Cat. No. 896.	1.25	hack
893	Top Socket threaded to fit 1-inch iron pipe with opening on top for sliding 1/2-inch iron pipe up or down.	1.50	hags
894	Slide Hanger for mounting to the side of spot or flood light hoods. Equipped with stud to fit Cat. No. 891.	1.75	hail
895	Cable Hanger Hook to fit Cat. No. 893.	.35	hair
896	Iron Flange 3 1/2-inch diameter, threaded for 1/2-inch pipe.	.25	hale
897	Malleable Iron Floor Base threaded for 1-inch pipe	3.50	half
898	Metal Switchbox with 25-Amp. switch for lamp stands	2.50	hams
899	Pipe Clamp for attaching switchbox to lamp stands	.50	hand
900	5-Inch Steel Spring Wire Lense Ring.	.45	hang
901	6-Inch Steel Spring Wire Lense Ring.	.45	hank
902	Brass Spring Hinge for spot and flood light hoods	.35	hard
903	Pipe Clamp threaded for 1/2-inch iron pipe with clamp opening to fit 3/4 to 1 1/2-inch iron pipe	1.75	hare
904	Wire Extension for mounting on carbon holder to bring wire connection further away from the heat.	.50	hark
905	Wood Handle with threaded sleeve to fit feed rod of No. 884 Arc Lamp.	.75	harm
906	Feed Rod and Gear for Arc Lamp No. 884	2.00	harp
907	Carbon Arm to fit on Arc Lamp No. 884.	1.50	hate

Continued on page 76

FITTINGS AND PARTS

For Our Lamp Stands and Arc Lamps

(Continued)

PRICES

Cat. No.		Price	Code Word
908	Carbon Arm to fit on Arc Lamp No. 883.	\$1.50	haul
909	Thumb Screw to fit through slot of Carbon Holders	.10	have
910	Heavy Carbon Holder for 5/8-inch carbons to fit on Carbon Arms No. 907.	2.25	hawk
911	Heavy Carbon Holder No. 910 for 3/4-inch carbons to fit on Carbon Arm No. 907.	2.75	haze
912	Carbon Holder for 5/8-inch carbons to fit on Carbon Arm. No. 907.	2.00	hazy
913	Carbon Holder No. 912 type for 3/4-inch carbons	2.25	head
914	Carbon Holder for 5/8-inch carbons to fit on Carbon Arm No. 908.	1.75	heal
915	Carbon Holder Shoe for Carbon Holder No. 912	.50	heap
916	Adapter for holding 11/32-inch carbons in carbon holders	1.00	heard
917	Adapter No. 916 type for holding 3/8-inch carbons in carbon holders.	1.00	hear
918	Door Knob and Catch for spot light door.	.60	heat

EXTENSION STAGE BRACES



Our Extension Stage Braces are made of thoroughly seasoned and selected wood finished in hard oil with iron work neatly japanned.

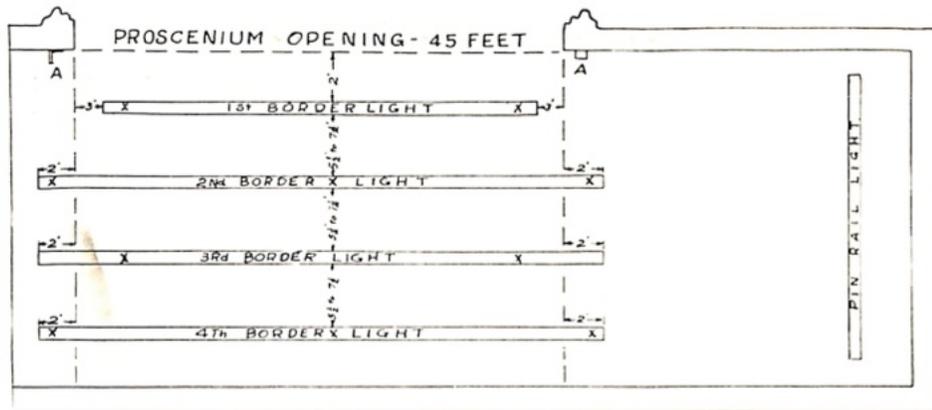
Cat. No.	Stage Brace	Length		Price Each	Code Word
		Closed	Extended		
919	Stage Brace	2 ft.	2 ft. 7 in.	\$3.10	heel
920	Stage Brace	3 ft.	4 ft. 7 in.	3.10	heft
921	Stage Brace	4 ft.	6 ft. 4 in.	3.10	heir
922	Stage Brace	5 ft.	8 ft. 4 in.	3.10	helm
923	Stage Brace	6 ft.	10 ft. 4 in.	3.10	help
924	Stage Brace	8 ft.	14 ft. 4 in.	3.40	hemp
925	Stage Brace	10 ft.	18 ft. 4 in.	3.40	hems
926	Stage Brace	12 ft.	22 ft. 4 in.	4.50	hens
927	Stage Brace	16 ft.	30 ft. 4 in.	4.50	herb

TELEGRAPH CODE WORDS

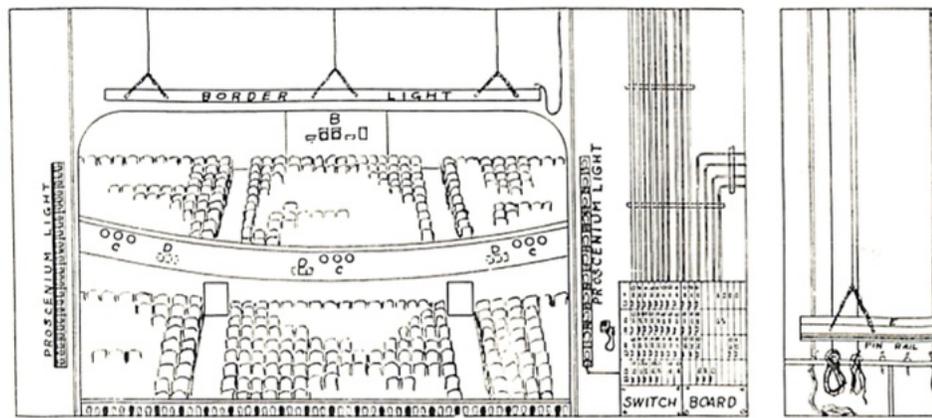
Covering Instructions, Questions and Answers

Parties wishing to telegraph can reduce the cost of messages and avoid mistakes by using our Telegraph Code Words given below and those assigned each article listed in this catalog.

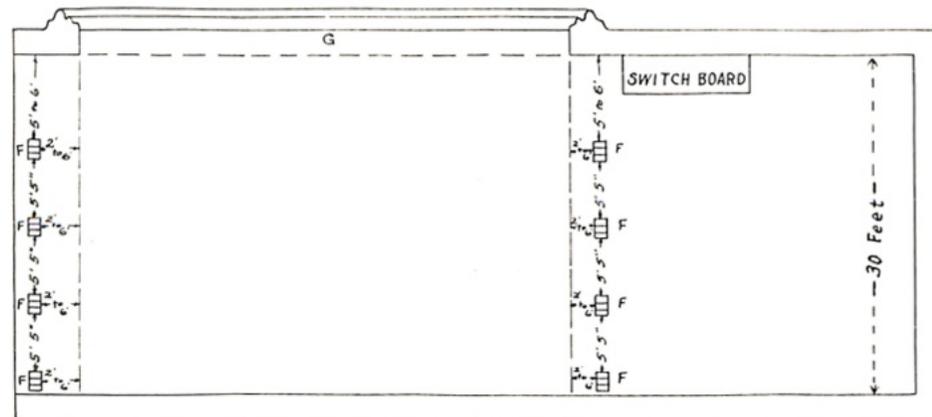
Code Word	Meaning
wick	Add to our order of.
wide	Ship by Express.
wife	Ship by Express C. O. D.
wigs	Ship by Freight
wild	Ship by Freight C. O. D.
wile	Ship by Parcel Post.
willer	Ship by Parcel Post C. O. D.
wilt	Ship by Special Handling Parcel Post.
wind	Ship by Special Delivery Parcel Post.
wins	Ship by Special Handling Special Delivery Parcel Post.
wine	Ship what you can at once and balance as soon as possible.
wing	Complete order must be shipped.
wink	Must have shipment here by.
wipe	Answer by mail today.
wiper	Answer by telegraph at our expense.
wiry	Our route ahead and dates are as follows:
wise	We agree to.
wish	We are confirming by mail today.
wits	We will return equipment on
with	We are sending a written guarantee signed by.
woes	We are sending a cash deposit of.
wolf	To cover full value of equipment.
wont	Have you received our order of.
wood	When will you ship our order of.
woof	Can you ship at once.
wool	Can you furnish on rental.
word	Quote us prices on.
wore	Quote us rental prices on.
work	For the period (or dates) of.
wove	You must agree to.
wrays	Accept and comply with conditions given in Rental Terms on page 3.
writ	A written guarantee signed by a responsible rated person or firm required.
yoke	A cash deposit for the full value of the equipment required.
yams	All rental charges must be paid in advance with order.
yank	We require a cash payment of 25% of the full value of the order and will ship balance C. O. D.
yaps	We are pleased to quote you the following prices.
yard	We can furnish.
yarn	On rental for the period you specified.
yawl	We can ship at once.
yawn	We can ship.
yaws	At once and balance on.
year	We are shipping
yell	We will ship.
yelp	For the sum of
yolk	State when and how long you wish to rent.
yore	State whether you wish to purchase or rent equipment.
young	Your order received too late for making shipment to reach you in time.
yale	Your order not received.
zeal	Please furnish references with whom you are buying on open account.
zelm	Goods shipped by express.
zero	Goods shipped by Freight
zest	Goods shipped by Parcel Post.
zirc	Goods shipped by Special Handling Parcel Post.
zips	Goods shipped by Special Delivery Parcel Post.
zone	Goods shipped by Special Handling Special Delivery Parcel Post.



LIGHTING PLAN OF STAGE AT BORDER LIGHT HEIGHT
 A. Indicating Proscenium Lights. X. Indicating Working Lights in Border Lights.



LIGHTING PLAN OF PROSCENIUM WALL, STAGE SIDE
 (Looking Out Into Auditorium)
 B. Indicating Picture Booth. C. Indicating Balcony Rail Spot Lights.
 D. Indicating Wall Pockets Inside of Balcony Rail.



LIGHTING PLAN OF STAGE FLOOR
 F. Indicating Stage Floor Pockets. G. Indicating Footlight Trough.

SPECIFICATIONS FOR THEATRE LIGHTING

In the following pages we have drawn up a condensed specification covering the installations of lighting systems in Theatres, Auditoriums, Lodge Halls, Schools, Temples, and all other buildings in which theatrical lighting is required. The information given will be helpful to those preparing specifications for theatrical lighting and we further invite you to avail yourself to the service of our Engineering department in drawing up your specifications.

As the general principle of lighting is practically the same in all theatres whether large or small, we have laid out our sketches with general specifications to cover a large size theatre. Following this general specification will be found specifications for a medium size stage, a small size stage, and a little theatre stage to be used in place of the specifications given on the same subject in our large size theatre specifications.

GENERAL SPECIFICATIONS

Covering a Large Size Theatre

The contractor shall furnish all labor and material necessary for the complete installation of all electrical work as herein specified and same must be in accordance with National Electrical Code and rulings of the city department having jurisdiction of all work installed. The current edition of the National Code Standard Rules for Electric Light and Power Wiring shall be considered a part of these specifications.

All material and equipment must be as specified herein and if not the architect reserves the right to demand a sample of any material to be substituted for his approval before installation.

The contractor must keep an accurate record of any changes made in the locations or outlets, switches, distributing and junction cabinets authorized by the architect and he must also see that all such changes are made on the general plans in the office of the building.

SIZES OF WIRES AND WIRING: The sizes of the wires for the main feeders and distributing circuits shall be based on the entire load being in operation at one time and shall not be less than size given in the National Code or rule book issued by the city department having jurisdiction.

All wiring as herein specified must be run in galvanized iron conduits, all concealed in and between floor construction partitions, attic space, etc., with the exception of the conduit runs on the stage. Conduit runs for the outside lights must be run inside of the building and come through to the outside of the building only at the outlets. No wires shall be pulled through the conduits until plastering has been done.

The wiring and conduit shall be run from cabinet to cabinet forming a chain of distribution, starting from the point where the main service feeds enter the building, to the main distributing cabinet, and branching out from that point to all other cabinets. There shall be three main service connections, one to control all exits, fire escapes, and emergency lights, one to control all other illumination and fans, and the third to control all power service.

OUTLETS AND CONTROL OF CIRCUITS: Each outlet box throughout the building shall be of the heavy metal standard knockout type and shall be installed in such a manner as to be flush with the finished plaster. All bracket and ceiling light outlets for attaching fixtures shall be equipped with fixture supports fastened firmly to the outlet boxes and structure of building. The general lighting of the building shall be controlled from various fuse centers either by separate circuit switches or by master switches, and in the rooms where the lights are to be controlled by flush wall switches, such switches must be placed so that they are visible from the light being controlled.

SWITCHBOARD AND DIMMERS: The contractor to furnish and install a complete Chicago Stage Lighting Co. type of Pre-Set Switchboard (as described and illustrated on page 4 of their catalog AA) equipped with the required number

SPECIFICATIONS FOR THEATRE LIGHTING

General Specifications

(Continued)

of mechanically operated dead front type of switches as specified in plans. The remote control board equipment to be located in the room as designated on plans. In combination with switchboard contractor shall furnish and install back of the switchboard the required number of Chicago Stage Lighting Co. banking Form 2 interlocking type 110 step continuous duty dimmer plates as specified in plans.

MAGAZINE PANEL: A magazine panel shall be furnished with the necessary number of branches and located on the stage as shown by the plans.

VENTILATOR DAMPER MAGNETS AND SWITCHES: The contractor to furnish and install one Chicago Stage Lighting Co. Damper Magnet (either No. 546, 549, or 550) as designated on plans. Contractor also to furnish and install two No. 551 Chicago Stage Lighting Co. Damper Magnet Switches and same to be located on the stage as shown by plans.

BORDER LIGHTS: The contractor to furnish and install the required number of Chicago Stage Lighting Co. catalog No. 467 Permanent Color Border Lights as specified on plans. Each border light to have a separate working light circuit of two lights as shown by X on plans. The length of the first border light shall be six feet shorter than the width of the proscenium opening so that it can be lowered and used for lighting interior settings. The length of all other border lights shall be two feet longer than the width of the proscenium opening. The first border light shall be hung two feet back from the proscenium opening and second border light hung $5\frac{1}{2}$ to $7\frac{1}{2}$ feet back of the first border light and all other border lights to be hung the same distance apart as the distance is between the first and second border lights.

PIN RAIL LIGHT: The contractor to furnish and install one Chicago Stage Lighting Co. No. 473 Pin Rail Light directly over the Pin Rail for illuminating same without projecting any stray or reflected light on any other part of the stage.

PROSCENIUM LIGHTS: The contractor to furnish and install two Chicago Stage Lighting Co. No. 470 Proscenium Lights, one to be installed to the right and the other to the left of the proscenium opening on the stage side and arranged so that they are concealed from the audience.

FOOTLIGHTS: The contractor shall furnish and install one Chicago Stage Lighting Co. No. 455 Permanent Color Footlight and the length of same shall be four feet shorter than the width of the proscenium opening.

STAGE POCKETS: The contractor shall furnish and install eight Chicago Stage Lighting Co. No. 671 Stage Pockets as shown on plans.

BRIDGE POCKETS: The contractor shall furnish and install two Chicago Stage Lighting Co. No. 673 Wall Pockets, one on each bridge as shown on plans.

ORCHESTRA PIT: Furnish and install 16 musicians' outlets in Orchestra Pit as shown on plans.

OVERHEAD LIGHTING OR ORCHESTRA PIT: Contractor shall furnish and install 10 Chicago Stage Lighting Co. No. 492 Spotlights, each equipped with Cat. No. 480 Attachment, in loft (or elsewhere) above orchestra pit as shown by plans. One of the spotlights to be equipped with 1 Cat. No. 536 Pin Spot Front for spotting orchestra leader and the other nine spotlights for flooding orchestra pit in various colors.

AISLE AND STEP LIGHTS: Furnish and install Chicago Stage Lighting Co. Aisle and Step Lights Nos. 784, 786 and 787 where shown on plans.

COVE AND DOME LIGHTS: Furnish and install Chicago Stage Lighting Co. Cat. Nos. 471 and 472 Cove and Dome Lights where shown on plans.

EXIT LIGHTS: Furnish and install Chicago Stage Lighting Co. Cat. No. 793 Exit Signs where shown on plans.

SPECIFICATIONS FOR THEATRE LIGHTING

General Specifications

(Continued)

BALCONY POCKETS: Furnish and install 9 Chicago Stage Lighting Co. No. 673 Wall Pockets as shown on plans, for spotlights.

BALCONY SPOTLIGHTS: Furnish and install 9 Chicago Stage Lighting Co. No. 492 Spotlights with Balcony Rail Mounting No 480 as shown on plans.

MOTION PICTURE BOOTH: Furnish and install two Chicago Stage Lighting Co. No. 674 Wall Pockets with other wiring as shown by plans. Contractor also to install and connect up one Chicago Stage Lighting Co. No. 521 Dissolving Stereopticon, two Chicago Stage Lighting Co. No. 488 Spotlights and Motion Picture Machines, all furnished by others.

ELECTRIC SIGNS: Contractor shall furnish and install electric signs equipped with Chicago Stage Lighting Co. Sign Letters (Nos. 788, 789 or 790) as designated and shown by plans.

SPECIFICATIONS FOR MEDIUM, SMALL AND LITTLE THEATRES

The following Lighting Specifications on a medium size, small size, and little theatre size stage are to be used in place of those given on the same subject, when using our large size theatre specifications, in conjunction with any of these specifications in drawing up plans to cover your needs. The catalog numbers given below designate Chicago Stage Lighting Co. material and equipment which contractor shall furnish and install as shown on plans.

LIGHTING SPECIFICATIONS FOR A MEDIUM SIZE STAGE

20 Feet Deep with a 30-Foot Wide Proscenium Opening

BORDER LIGHTS: One No. 464 Border Light (1st Border) 24 feet long, wired as follows: 3 circuits of 1200 watts each for 18 200-watt Blue Lights, 3 circuits of 1200 watts each for 18 200-watt Red Lights, 3 circuits of 1200 watts each for 18 200-watt White Lights. Two No. 464 Border Lights (2nd and 3rd Borders) each 32 feet long, wired as follows: Four circuits of 1050 watts each for 21 200-watt Blue Lights, 4 circuits of 1050 watts each for 21 200-watt Red Lights, 4 circuits of 1050 watts each for 21 200-watt White Lights, 1 circuit of 200 watts for 1 200-watt Work Light.

FOOTLIGHT: One No. 452 Footlight 26 feet long wired as follows: 3 circuits of 1000 watts each for 50 60-watt Blue Lights, 3 circuits of 1000 watts each for 50 60-watt Red Lights, 3 circuits of 1250 watts each for 50 75-watt White Lights.

STAGE POCKETS: Six No. 671 Stage Floor Pockets set three on each side of stage as shown by plans.

LIGHTING SPECIFICATIONS FOR A SMALL SIZE STAGE

15 Feet Deep with a 20-Foot Wide Proscenium Opening

BORDER LIGHTS: One No. 461 Border Light (1st Border) 14 feet long and wired as follows: 1 circuit of 1080 watts for 18 60-watt Blue Lights, 1 circuit of 1080 watts for 18 60-watt Red Lights, 1 circuit for 1080 watts for 18 60-watt White Lights, 1 circuit of 120 watts for 2 60-watt Work Lights. One No. 461 Border Light (2nd Border) 22 feet long and wired as follows: One circuit of 1200 watts for 20 60-watt Blue Lights, 1 circuit of 1200 watts for 20 60-watt Red Lights, 2 circuits of 1200 watts each for 40 60-watt White Lights, 1 circuit of 120 watts for 2 60-watt Work Lights.

FOOTLIGHT: One No. 450 Footlight 16 feet long wired as follows: One circuit of 1260 watts for 21 60-watt Blue Lights, 1 circuit of 1260 watts for 21 60-watt Red Lights, 1 circuit of 1260 watts for 21 60-watt White Lights.

STAGE POCKETS: Five No. 668 Stage Floor Pockets set 2 on each side and 1 on back center of stage as shown by plans.

SWITCHBOARD AND DIMMERS: The Standard Theatre Type dead front switchboard with required number of switches and required number of dimmers as called for on plans.

LIGHTING SPECIFICATIONS FOR A LITTLE THEATRE STAGE

10 Feet Deep with a 15-Foot Wide Proscenium Opening

BORDER LIGHT: One No. 464 Border Light 12 feet long and wired as follows: One circuit of 720 watts for 12 60-watt Blue Lights, 1 circuit of 720 watts for 12 60-watt Red Lights, 1 circuit of 720 watts for 12 60-watt White Lights.

FOOTLIGHT: Three No. 457 Footlights, 5-foot long sections, wired as follows: One circuit of 900 watts for 15 60-watt Blue Lights, 1 circuit of 900 watts for 15 60-watt Red Lights, 1 circuit of 900 watts for 15 60-watt White Lights.

STAGE POCKETS: Three No. 668 Stage Floor Pockets set one on each side and one on back center of stage as shown on plans.

SWITCHBOARD AND DIMMERS: Small Standard Theatre Type dead front switchboard with required number of switches and required number of dimmers as shown on plans.

WINDOW DISPLAY LIGHTING

Our Engineering Department will gladly furnish complete Window Display Lighting Specifications upon request. When writing state size of window and line of goods to be displayed.

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SUNDRIES

Cat. No.		Price Each	Code Word
928	Adapter, Mogul to Medium Base Socket.....	\$.030	herd
929	Attachment Plug (2 piece detachable).....	.16	hews
930	Bushing, Porcelain, for 3/8-inch hole.....	.08	hide
931	Bushing, Porcelain, for 1/2-inch hole.....	.10	hies
932	Bushing, Iron, for 1/2-inch nipple.....	.02	hilt
933	Cartridge Fuse Clips for plugging boxes.....	.05	hint
934	Clock Key for Effects.....	.15	hiss
935	Locknut, Iron, for 1/2-inch nipple.....	.02	hive
936	Nipple, Iron, for 1/2-inch hole.....	.07	hoax
937	Peek Hole Glasses (1 set of blue and red).....	.20	hoes
938	Sockets, Mogul Porcelain .....	.75	hogs
939	Sockets, Weatherproof Pigtail .....	.18	home
940	Soldering Paste, 2-oz. can.....	.20	hone
941	Tape, Friction, 1/2-lb. roll.....	.30	hoof
942	Tape, Rubber, 1/2-lb. roll.....	.60	hoop
943	Wire Lamp Guards .....	.30	hose

DISCOUNT SHEET

Applying to Catalog AA

List Prices and Discounts Subject to Change Without Notice

Catalog Nos.	Page	Discount	Catalog Nos.	Page	Discount
166 to 171.....	7	10%	668 to 676-688.....	49	10%
172 to 188.....	10	10%	677 to 682-688.....	50	10%
189 to 193.....	11	Net	683 to 685.....	50	15%
194 to 197.....	11	10%	686 to 691.....	51	10%
451-454	14	Net	682 to 697.....	52	10%
456	15	Net	698 In lots of 1 to 9....	53	15%
457 to 460.....	16	5%	In lots of 10 to 49..	53	20%
462	18	Net	In lots of 50 to 99..	53	25%
466	19	Net	In lots of 100 or more	53	30%
468 to 470.....	20	Net	700 to 702.....	53	10%
475 to 480.....	23	10%	703 to 714.....	54	10%
481-482	24	10%	715 to 729.....	55	10%
483 to 489.....	25	10%			
490 to 496.....	27	10%	730 to 741 { Special dis-	56	Net
497	27	Net	742 to 758 { counts on con-	57	Net
498-499-502-503	28	10%	tract or quan-		
500-501	28	6%	tity orders		
504 to 508.....	29	10%	759	57	10%
509 to 511.....	30	5%	760 to 772.....	59	10%
512	30	10%	773 to 783.....	61	10%
513-515-516	31	10%	784 to 787.....	62	10%
514	31	Net	788 to 790.....	63	10%
517 to 520.....	33	10%	792 to 808.....	65	10%
555-758	33	Net	809 to 814.....	66	10%
521-522	34	10%	815 to 819.....	67	10%
523 to 526.....	35	10%	820 to 823.....	68	10%
527 to 531.....	36	10%	824 to 839.....	69	Net
532 to 535.....	37	10%	840	69	10%
536 to 541.....	38	10%	841 to 858.....	70	
542 to 551.....	39	10%	Less than 100 feet		10%
552 to 556.....	40	Net	100 feet or more		20%
557 to 560.....	41	Net	859 to 863.....	70	
561 to 563.....	41	10%	Less than 100 feet		Net
564 to 581.....	42	5%	100 feet or more		10%
582 to 624.....	43	5%	864 to 871.....	71	Net
624A-625 to 629.....	44	10%	Less than 100 feet		Net
630 to 639.....	45	10%	100 feet or more		10%
640 to 645.....	46	Net	872 to 876.....	71	Net
646 to 654.....	47	Net	877 to 882.....	72	10%
655 to 662.....	48	Net	883 to 885.....	73	10%
663 to 667.....	48	15%	886 to 907.....	75	Net
			908 to 918.....	76	Net
			919 to 927.....	76	10%
			928 to 943.....	84	Net

CHICAGO STAGE LIGHTING CO.

Electrical Stage Lighting Apparatus and Effects

112 N. La Salle Street

Long Distance Telephones
MAIN 1676 MAIN 2522

Chicago, Illinois



USE our Engineering
Department; it is
always at your service.
¶ We will gladly assist
you in the making of
sketches or designs and
furnish any data you
may need.

