

SEASON

1916 - 1917

CHICAGO
STAGE
LIGHTING
CO.

112 N. La Salle Street

Telephone Bell-Main 1676

CHICAGO, ILL.

Greeting

We take great pleasure in submitting to our patrons and prospective patrons our catalog 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 article. 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 without a doubt in a great position to serve our patrons by giving them the benefit of our experiences.

We are pioneers and originators of fireproof stage lamps and appliances that will pass the most rigid inspection laws. The fact is our goods have given such great results that others are now trying to copy them, making an inferior article in order to sell below our price, so we kindly ask you to specify when ordering our goods through other dealers that same must positively be manufactured by us. Wishing you a continued success and soliciting your patronage, we remain,

Respectfully yours,

CHICAGO STAGE LIGHTING CO., Inc.

112 N. La Salle St.

Telephone, Main 1676.

Chicago, Ill.

Copyright 19'6 by

Chicago Stage Lighting Company

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Terms

Our terms are net cash with all orders, except to parties of established credit, to whom we extend thirty days' time. Unknown parties desiring credit with us must send satisfactory references with first order.

Payment can be made in current funds, which may be sent by registered letter, draft, express or postal money order. Catalog prices are strictly net.

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 goods broken or lost in transit or for safe delivery of goods sent by mail.

How to Order

When ordering always write plainly your name, express and postoffice address, name of town, county and state. Always give shipping directions, whether by mail, express or freight. 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.

Rental Terms

Read Carefully Before Ordering.

We rent out **Spot Lamps, Baby Spot Lamps, Open Lamps, Reflector Lamps, Searchlights, Bunch Lights, Border Lights, Footlights, Electric Stage Effects, Plugging Boxes, Stage Cable, etc.**, etc., by the week or fraction thereof, to parties who comply with our terms mentioned below. Rental Charges will be quoted on application.

Parties desiring to rent goods from us must agree, 1st, to pay all rental charges in advance; 2nd, to pay express charges both ways; 3rd, to pay for all damages if any done to the goods from the time they leave our shipping room up to their return to our receiving room, ordinary wear and tear excepted; 4th, to repack goods in the same shipping containers they were shipped in; 5th, to return the goods 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 our goods successfully; 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 before rental period; 8th, we require a cash deposit for the full value of the goods rented or a written order from some bank or responsible business firm in which they guarantee to be held responsible for the safe and prompt return of our goods; 9th, we require renter to sign our Rental Contract which we will furnish.

Spot Light Lamps

Our Spot Light 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, so that it can be raised, lowered, swung or tilted to any angle, 1 condensing lens, 1 enclosed rheostat No. 84, 1 enclosed switch, 12 feet of asbestos covered wire, 25 feet of stage cable and 1 hand feed arc lamp No. 87 mounted on 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 Russian iron, double lined on both sides and triple lined top, with front and rear plates made of aluminum.

The $\frac{3}{4}$ -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 spot light instantaneously by simply moving the arc lamp forward or backward in the lamp house. Unless otherwise ordered, we equip Spot Lamp No. 1 with a 6-inch condenser.

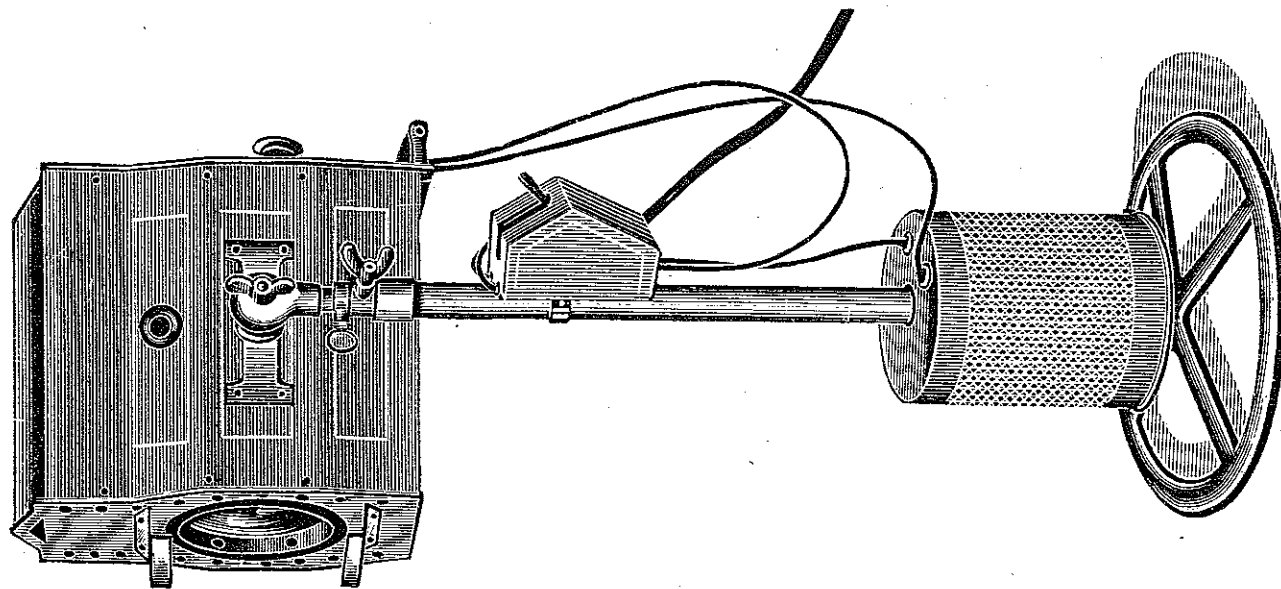
or 6 inch lens, complete.....\$45.00

No. 1. Spot Light Lamp, with 5

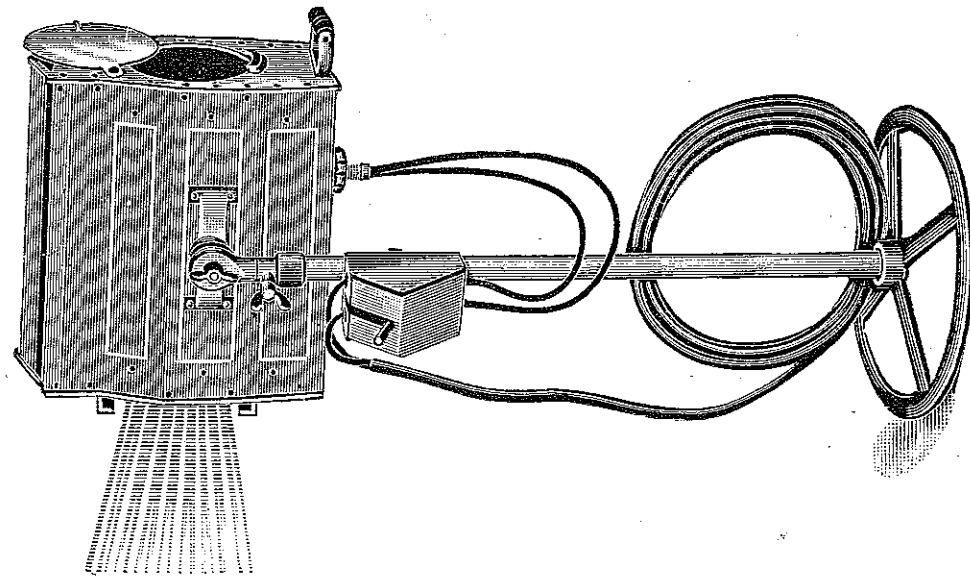
No. 2. Spot Light Lamp, with 8-

inch lens, complete 50.00

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Spot Lamp No. 1.



1000-Watt Spot Lamp

Our very latest incandescent type of spot lamp is made on the same order as our No. 1 Spot Lamp with the exception that the lamp house is not equipped with an arc lamp but with a large mogul socket, so that the new type of high wattage nitrogen gas filled concentrated filament mazda lamps can be used in same. The mogul socket is mounted on a hand actuated sliding track that operates from underneath the bottom of the lamp house.

1000-Watt Spot Lamps Continued.

The light can be changed from a spot to a flood or vice versa instantaneously by simple sliding the mogul socket containing the incandescent lamp forward or back. The perfectly ventilated lamp house is made of Russian Iron double lined on both sides, triple lined top with front and rear plates made of aluminum. The lamp house is mounted on a telescopic malleable iron stand by a side bracket so that it can be raised, lowered or tilted to any angle. The lamp projects a very strong light and a great many theatres have installed lamps on the balcony rail permanently for flooding because they can be controlled from the stage switchboard doing away with the operators.

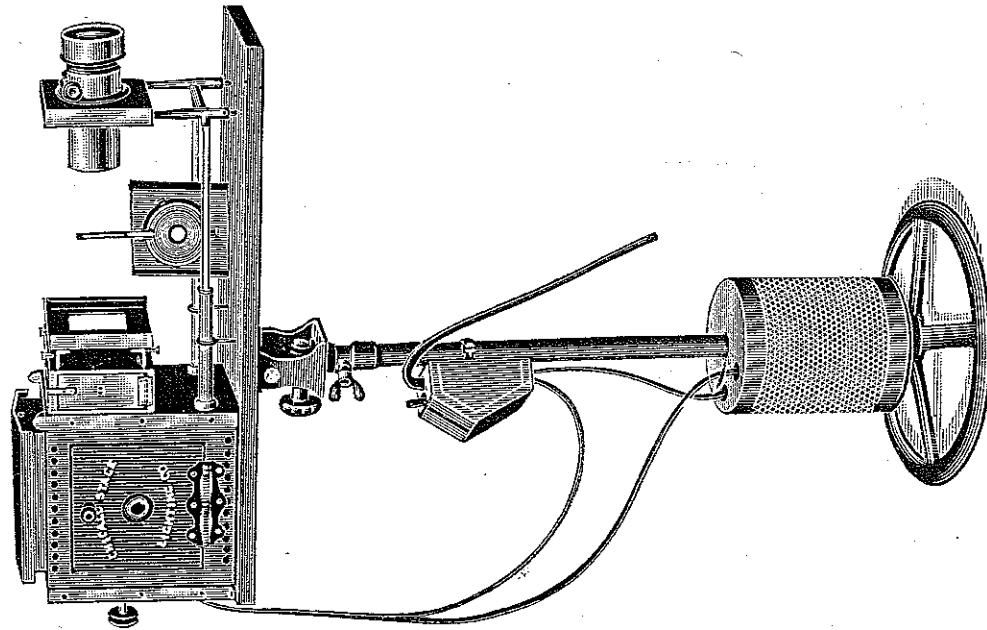
No. 1000. Mazda Spot Lamp equipped with one 1000 Watt Nitrogen Gas Filled Mazda Lamp, 1 enclosed switch, 8 feet of asbestos wire, 25 feet of stage cable, complete as above.....\$45.00

Nitrogen Gas-Filled Mazda Lamps

Tip-Up Concentrated Filament Type

Our Cat. No.	Size of Lamp In Watts	Size of Socket Lamp Fits In	Price Each
367	100	Standard	\$ 1.35
1013	250	"	2.70
1001	400	"	4.50
1002	500	Mogul	4.50
1003	1000	"	8.00
1014	1500	"	10.00

Stereo Spot Lamps For Long Throws



Stereo Spot Lamp.
Outfit No. 316.

Spot Lamps For Long Throws

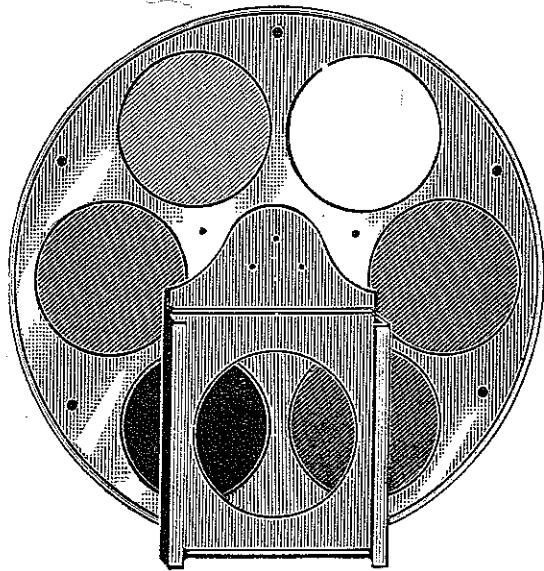
The standard size Spot Lamps, such as our No. 1, will not project a very small spot field of light at long or extremely long throws. To overcome this difficulty we have made up a Special Spot Lamp Outfit which corresponds exactly to the description given on our No. 1 on pages 4 and 5, with the exception that it is equipped with a 35-ampere rheostat to give stronger illumination and a longer lamp house so that long focus lenses can be used.

No. 315. Special Spot Lamp, complete with stand, rheostat, switchbox, stage cable, asbestos wire and long focus lens.....\$50.00

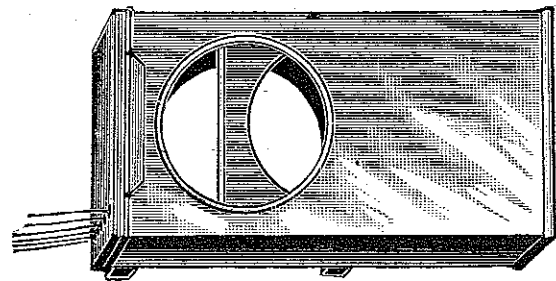
Stereo Spot Lamps

The Stereo Spot Lamp is practically a single stereopticon mounted on a Spot Lamp stand by means of a special hand worm gear knuckle joint, by which it can be raised, lowered or swung to any position. The Stereo Spot Lamp Outfit is made up to accommodate those who wish an extremely strong, flat, white light with a sharp distinct outline around the spot field. The reason that this outfit will project such a field of light is because the light is projected by an achromatic objective, whereas the light from a spot lamp is projected by a single condensing lens. The spot field is made large and small by means of an Iris Shutter placed in front of the slide carrier compartment. This outfit can also be used for projecting lantern slides. When ordering state your distance away and smallest size spot you want at that throw.

No. 316. Stereo Spot Lamp Outfit, complete with $\frac{1}{2}$ size objective, Iris Shutter, stand, rheostat, switchbox, stage cable and asbestos wire\$83.50



Spot Lamp Color Wheel
No. 9



Spot Lamp Color
Box No. 11.
10

Color Wheel Attachment

Our Color Wheel Attachment consists of a galvanized metal wheel 21 inches in diameter, with six round openings for holding the different colors of gelatine. The wheel is mounted on a square galvanized frame, by which it can be attached or detached very quickly to our Spot Light Lamps.

- No. 9.** Color Wheel Attachment for 6-inch spot lamp, without colors, each\$4.00
- No. 10.** Color Wheel Attachment, for 8-inch spot lamp, without colors, each 7.00
- For colored gelatines, see page 15.

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.

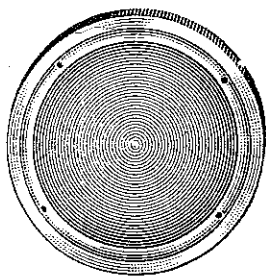
- No. 11.** Color Box, with 5 or 6 inch color slides.....\$ 7.00
- No. 12.** Color Box, with 8-inch color slides 10.00
- For colored gelatines, see page 15.

Spot Light Lamp Color Frames

Metal Color Frames, with gelatine mediums, for use with our Spot Light and Scepticon Lamps.

- No. 75.** Metal Color Frame, 8 inches square, with medium for 5 or 6 inch lens box, each.....\$0.25
- No. 76.** Metal Color Frame, 10 inches square, with medium for 8-inch lens box, each..... .35
- For colored gelatines, see page 15.

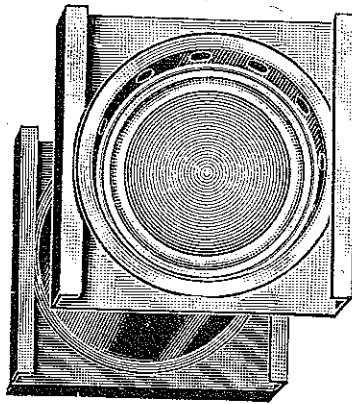
Reducing Rings



We make up 3 sizes of cast iron reducing rings for the purpose of holding small lenses in larger spot lens openings.

No. 202. Reducing Ring for holding in a 5-inch lens in a 6-inch Spot Lamp	\$0.75
No. 265. Reducing Ring for holding in a 4½-inch lens in a 6-inch Spot Lamp	.75
No. 266. Reducing Ring for holding in a 6-inch lens in an 8-inch Spot Lamp	.75

Stop Lamp Extension Front

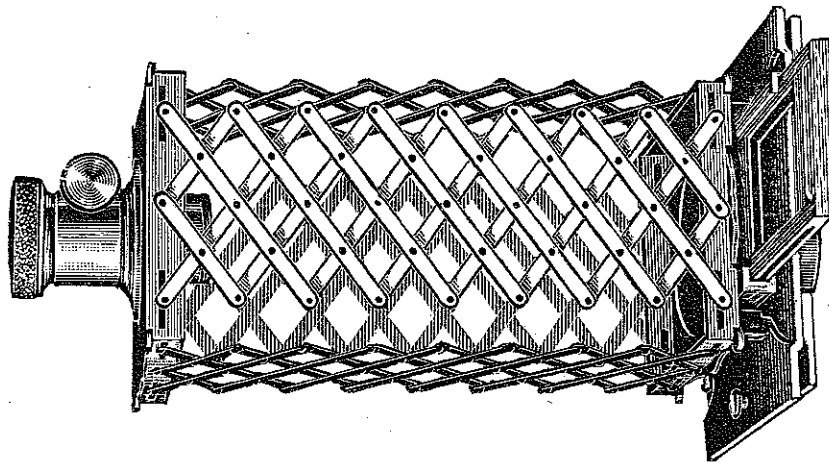


On account of the great demand for a small spot field at extremely long throws and as this calls for a long focus condenser to make this small spot field, and as the Spot Lamps are not made to draw down a long focus condenser, we have made up an extension front that can be slipped on in front of our Spot Lamp. This front extends the lens out so that a long focus lens can be used. When ordering state size of spot field wanted and the distance you are throwing.

No. 201. Spot Lamp Extension Front with lens	\$5.00
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Stereopticon Attachment for Attaching to our Spot Lamp No. 1

For Projecting Lantern Slides



Our Stereopticon Attachment consists of a folding spring steel bellows fastened to a front and rear plate made of aluminum, 1 5-inch condenser, 1 ¼-size objective lens and 1 rapid slide carrier. The feature of this attachment is in the steel bellows, which are fireproof and self-supporting, doing away with all long rods, which are always in the way on other machines.

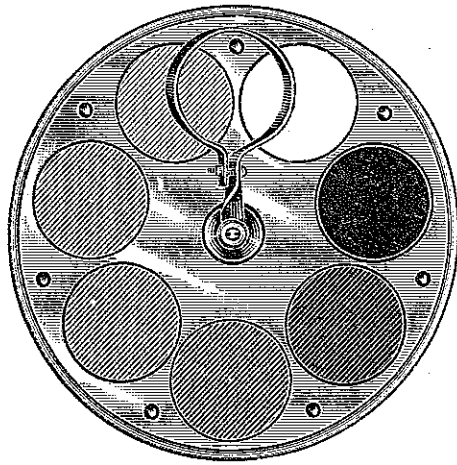
The steel bellows will fold to 5 inches and extend to 18 inches, so that both short or long focus lenses can be used.

No. 7. Stereopticon Attachment only (ready for attaching to Spot Light Lamp No. 1).....

\$25.00

Small Color Wheel

For Picture Machine and Stereopticons



The above cut illustrates our new Small Color Wheel to fit on the front collar of the stereopticon objective lens of your Moving Picture Machine, Stereopticon or Stereo Spot Lamp for the purpose of projecting colored spots or floods without the use of a Spot Lamp. It also can be used for projecting your stereopticon slides in colors. The color wheel is made of galvanized iron, aluminum bronzed with 7 perfect openings punched in same, and is 13 inches in diameter. Made up in two sizes, namely, one with a brass band clamp to fit a $\frac{1}{4}$ size objective and one to fit a $\frac{1}{2}$ size objective.

- No. 317.** Small Color Wheel to fit $\frac{1}{4}$ size objective\$2.00
- No. 318.** Small Color Wheel to fit $\frac{1}{2}$ size objective..... 2.00

Note—For Colored Gelatines for above wheel see Cat. No. 74 on page 15.

For Condensers see page 59.

Colored Gelatines

We carry a full stock of imported colored gelatine mediums 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. Size of each sheet is 19 by 24 inches. When ordering state catalog and shade number.

Cat. No. 74. Colored Gelatines, any shade, per sheet.....\$0.10

Cat. No. 74. In lots of 100 sheets. 8.00

Shade	No.
1—Clear	11—Purple
2—Frosted	12—Dark Purple
3—Straw	13—Green
4—Amber	14—Dark Green
5—Orange	15—Steel Blue
6—Pink	16—Green Blue
7—Light Red	17—Medium Blue
8—Red	18—Blue
9—Dark Red	19—Dark Blue
10—Magenta	

Colored Silk Mediums

We manufacture Colored Silk Mediums, consisting of 5 or 7 colors fastened on 2 rollers, which are mounted in a wooden frame that will fit the grooves in front of our Olivet Box or Open Lamp No. 71. 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.

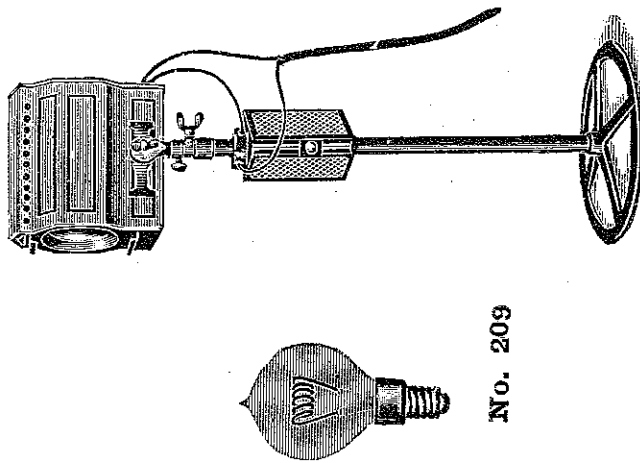
- No. 319.** Silk Roll of 5 colors ..\$25.00
- No. 320.** Silk Roll of 7 colors... 30.00

Open Lamp Color Frames

Wooden Color Frames, size 18x20 inches, for holding Colored Gelatine Mediums, for use with any Open Box Lamp Houses, such as our Olivet Box or Open Lamps, Reflector Lamps or Bunch Light Lamps.

- No. 77.** Wooden Color Frame, without medium, each.....\$0.40
- No. 78.** Wooden Color Frame, with medium, each50

Baby Spot Lamps

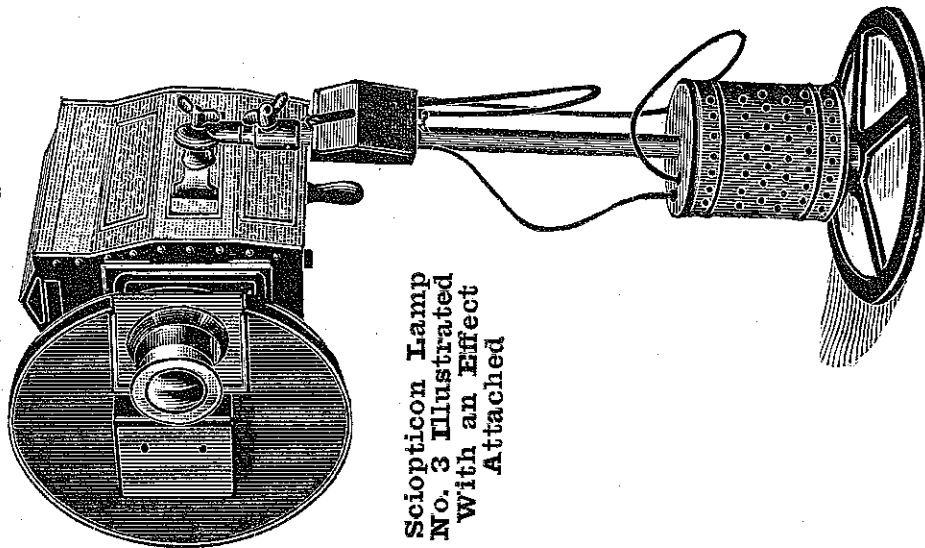


No. 209

Our Baby Spot Lamp is used for throwing a soft light suitable for many effects that the arc lamp would be too strong for. The lamp house is small, with the front and back made out of aluminum and the sides of Russian iron. The house is equipped with a 5-inch condenser and one 100-candle power incandescent lamp mounted on a sliding base. The house is mounted by a bracket on a telescopic wrought iron stand, which is equipped with 12 ft. of asbestos covered wire, 25 ft. of stage cable and one dimmer for controlling the lamp.

No. 206. Baby Spot Lamp, complete as above.....\$30.00
No. 205. Baby Spot Lamp, same as No. 206, but without dimmer
No. 205A. Baby Spot Lamp, same as No. 205 but equipped with an enclosed switch 22.50
No. 209. 100-Candle Power Stereopticon Incandescent Lamp..... 2.00
No. 367. 250 Watt Tungsten Lamp 2.70
 For color frames see No. 75, page 11.

Sciopticon Lamp No. 3

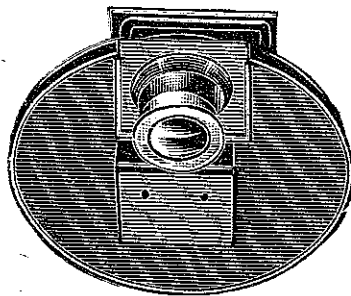


Sciopticon Lamp
No. 3 Illustrated
With an Effect
Attached

Our Sciopticon Lamp corresponds exactly to the description given of our Spot Lamp No. 1, listed on page 5, with the exception that it is equipped with an additional 5-inch condenser, 1 Sciopticon Condenser Holder No. 4 and 1 Sciopticon Objective No. 105, listed on pages 59 and 60. The condenser holder is equipped with two sets of grooves, one set being used for slipping the holder in front of our Spot Lamp and the other set is used for slipping any of our electric stage effects onto the holder. Each of our electric stage effects is equipped with a set of grooves into which the Sciopticon Objective slips. The above lamp when not used with effects can be used as a spot lamp.

No. 3. Sciopticon Lamp, complete \$65.00

Electric Stage Effect



Cut Shows an
Effect Complete
With Lenses.

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, and enclosed in a sheet-iron or wood case, and operated by a clock movement from the center. Where certain effects require 2 discs in one case, or where others require 2 machines we specify same below, after the title name of such effects. Each effect is equipped with two slide runners, so that it can be slipped on or off very quickly to our Sciopticon Lamp No. 3.

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. 4 and Sciopticon Objective No. 105. 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.

No. 13.	Avalanche Effect	\$60.00
No. 14.	Aurora Borealis Rays	60.00
No. 16.	Climbing Monkey	70.00
No. 17.	Crawling Spiders (For 2 Machines)	70.00
No. 18.	Cyclone	60.00
No. 19.	Cyclone with flying objects (double disc)	85.00
No. 20.	Electric Fountain Effect	60.00
No. 21.	Falling Flowers	85.00
No. 22.	Falling Leaves	80.00
No. 23.	Falling Roses	90.00
No. 24.	Falling Star (Hand Movement)	20.00

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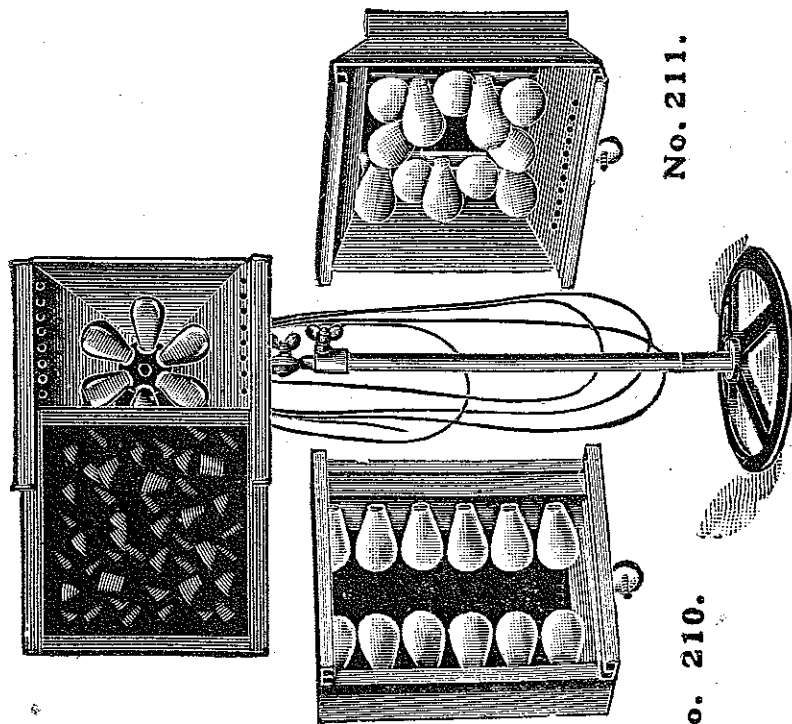
Electric Stage Effects—Continued

No. 26.	Fireworks Effect	\$60.00
No. 27.	Flame Effect	60.00
No. 28.	Flowing Water	60.00
No. 29.	Flying Birds	90.00
No. 30.	Flying Butterflies	90.00
No. 31.	Great Tidal Wave	60.00
No. 33.	Jumping Insects	70.00
No. 35.	Midnight Sun, (2 5-inch discs)	60.00
No. 37.	Moon Picture Slides	5.00
No. 38.	Moon Picture Slides, with Appearing and Disappearing Clouds	60.00
No. 39.	Moving Clouds with Disappearing Moon (two machines)	70.00
No. 40.	Moving Clouds with Rising Moon, Appearing and Disappearing Between Clouds	70.00
No. 41.	Moving Clouds with Stationary Moon	65.00
No. 42.	Moving Fleecy Clouds	60.00
No. 43.	Moving Fire Clouds	60.00
No. 44.	Moving Panorama	70.00
No. 45.	Moving Storm Clouds	60.00
No. 46.	Moving Sunset Clouds	60.00
No. 47.	Niagara Falls Effect with Slide	65.00
No. 48.	Ocean Waves	60.00
No. 51.	Rainbow Prism Effect	100.00
No. 52.	Rain Effect	65.00
No. 53.	Rain Effect with Driving Clouds (2 machines)	115.00
No. 54.	Rain of Ashes	60.00
No. 55.	Rising Fire and Smoke	60.00
No. 56.	Rising Mist (mica slides)	55.00
No. 57.	Rising or Setting Moon	20.00
No. 58.	Rising or Setting Sun	20.00
No. 59.	Rolling Lava	55.00
No. 60.	Running Water	55.00
No. 61.	Sand Storm Effect	60.00
No. 62.	Snow Effect	55.00
No. 63.	Snow Storm (2 mach.)	105.00
No. 64.	Swimming Fish Effect	60.00
No. 65.	Twinkling Moon Effect (comical)	20.00
No. 66.	Twinkling Stars	5.00
No. 67.	Volcano Effect (3 effects for 3 machines)	175.00
No. 68.	Volcano Eruption	55.00
No. 69.	Waterfall	55.00
No. 70.	Water Ripple	50.00

For other effects, write for price.

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Bunch Light Lamps



No. 211.

No. 210.

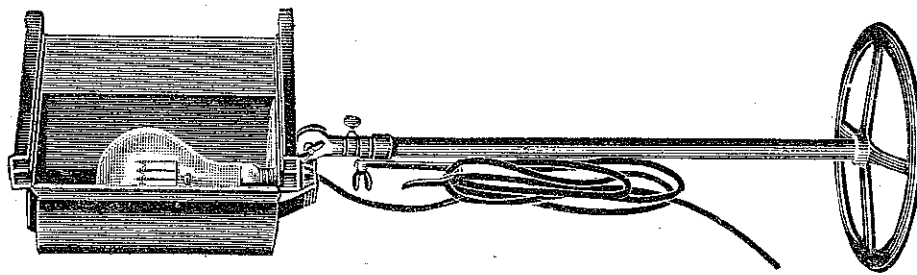
No. 73. Bunch Light Lamp.

Our Bunch Light Lamps are all made of galvanized iron, with grooves for holding color frames, and are mounted on a telescopic wrought-iron stand by means of a hand-set screw, so that it can be raised, lowered, swung or tilted to any angle. The interior of the hood is painted white, so as to give strongest amount of light and is thoroughly ventilated.

Each outfit as listed below includes the iron stand and 25 feet of stage cable, but no incandescent lamps.

- | | |
|---|---------|
| No. 73. Bunch Light Lamp, wired with 6 sockets, complete..... | \$10.00 |
| No. 210. Bunch Light Lamp, wired with 10 sockets, complete..... | 12.00 |
| No. 211. Bunch Light Lamp, wired with 12 sockets, complete..... | 14.00 |

1000-Watt Bunch Light



Our very latest type of Bunch Light is equipped with one large mogul socket, so that the new type high wattage nitrogen gas filled mazda lamps of 500 watts and up can be used in same. The hood is made of galvanized iron with a special ventilated top and 2 color frame grooves for holding our 18x20 inch wood color frame No. 78. The hood is mounted on a telescopic malleable iron stand so that it can be raised, lowered or tilted to any angle. For lamps see page 7.

- | | |
|---|---------|
| No. 1004.. High Wattage Bunch Light, complete with 25 feet of stage cable, but without any lamp | \$20.00 |
|---|---------|

Reflector Lamps

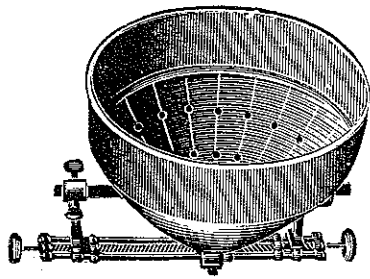
Our Reflector Lamp or Gallery Reflector consists of a parabolic shape copper head, lined with a corrugated silvered glass reflector.

This head is mounted in a galvanized iron hood, so as to pass the most rigid inspection laws. The hood is equipped with grooves for color frames and is mounted on a telescopic wrought-iron stand by means of a hand-set screw, so that it can be raised, lowered, swung or tilted to any angle. Additional parts include 1 enclosed rheostat No. 84, 1 enclosed switch, 12 feet of asbestos covered wire, 25 feet of No. 10 stage cable and 1 hand feed arc lamp No. 86 mounted on a hinged drop or dump door, so that the arc lamp can be tilted out backwards to be trimmed or to make a change of carbons in a minute's time. One of these reflectors is capable of throwing a powerful light of over 5,000 candle power.

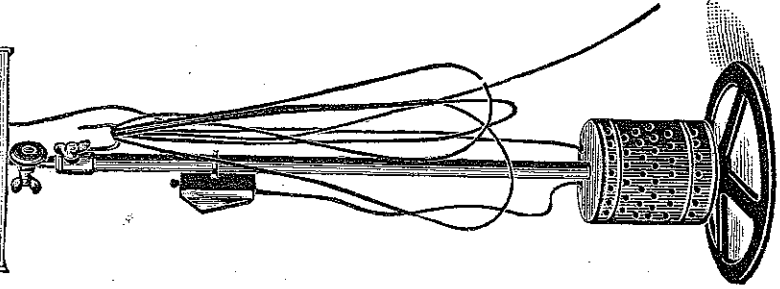
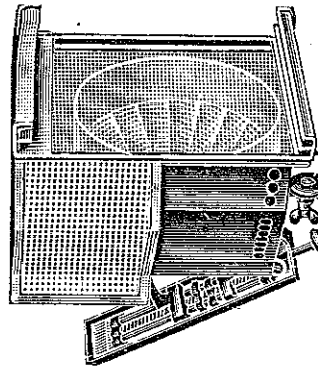
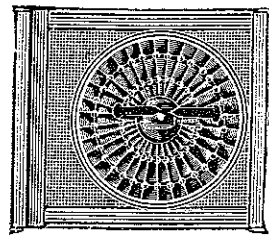
No. 72. Reflector Lamp or Gallery Reflector, complete\$55.00

We also make up another style of Reflector Lamp, that will not pass rigid inspection laws, for outdoor purposes, namely, for lighting up Fairs, Carnivals, Parks, etc. The Reflector Hood for this lamp is illustrated on the opposite page under Catalog No. 72B and the rheostat, iron stand, stage cable, etc., are the same styles as furnished with our Reflector Lamp No. 72.

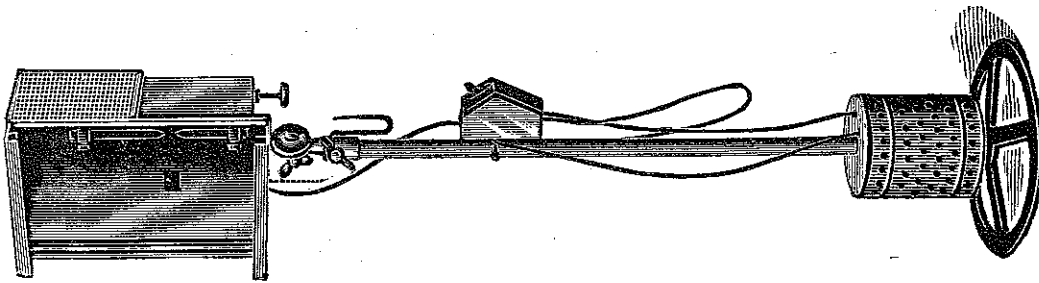
No. 72B. Reflector Lamp, complete as above.....\$35.00



No. 72B
Reflector Lamp
Hood



No. 72 Reflector Lamp



**Olivet Box or
Open Lamp**

Our Olivet Box or Open Lamp consists of a galvanized finished 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 spark proof screen.

Additional parts consist of one hand feed arc lamp No. 86, one enclosed switch, 15 feet of asbestos covered wire, 25 feet of No. 10 improved stage cable and one enclosed rheostat No. 84, adapted for direct or alternating current.

No. 71. Olivet Box, complete....\$40.00

Studio Lamps

Automatic Feed

Our Studio Lamps are without a doubt the very best on the market, having proven 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.

Our lamps produce an artificial light equal to daylight, which does not vary in strength all the time they are in use.

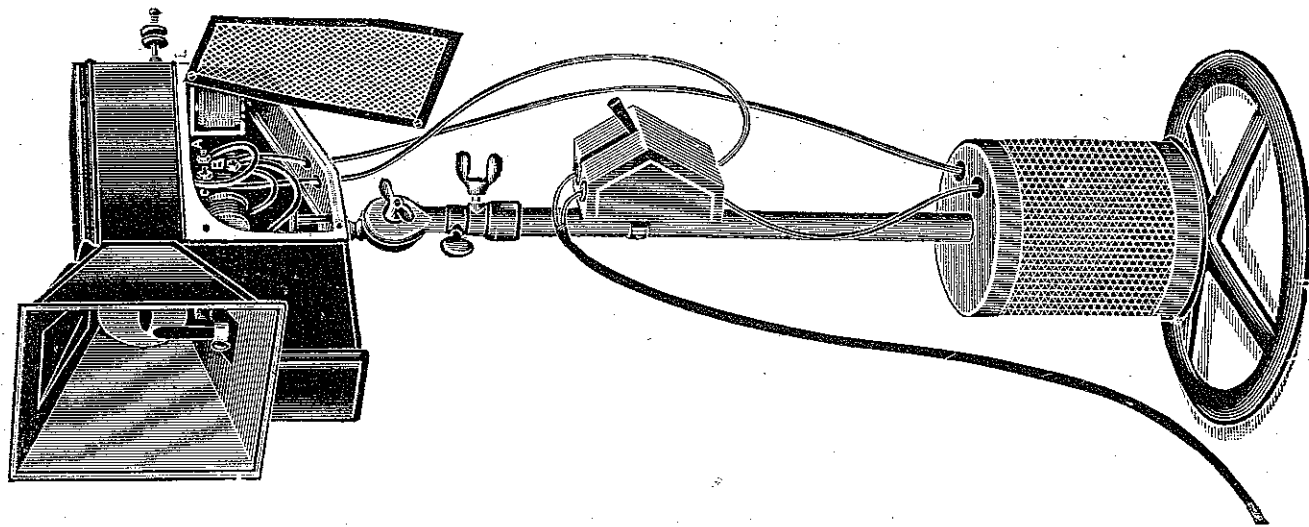
The first great feature of this lamp is that the carbons do not come together and then part every time the lamp feeds automatically, which operation always produces a flickering and unsteady light, but this lamp always keeps the carbons so far apart, never bringing them together after the lamp has been started, the automatic feeding operation being so fine that the light is absolutely steady and flickerless. This feature alone makes the lamp unsurpassed for Photographers, Engravers, etc., where a steady, even light is essential.

The second great feature is that this lamp will feed automatically and burn in any position, laying down flat, turned up side down or upright in any angle. This feature allows one to project the field of light into any nook or corner.

The third great feature is that this lamp can be used as an automatic or hand feed arc lamp on direct current and as a hand feed arc lamp on alternating current. The lamp is equipped with three binding posts, and can be changed from an automatic to a hand feed or vice versa in a few minutes' time by simply changing the connection from one binding post to the other binding post. This is a feature that will not be found in any other lamp on the market today.

(Continued on page 27)

Studio Lamps



Studio Lamp Outfit No. 321

Studio Lamps—Continued

The fourth great feature is that 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 fifth great feature is that the lamp is equipped with a screw driver set screw for regulating and adjusting the size of the arc desired.

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

We guarantee this lamp to be exactly as we state and we stand ready to ship a lamp for trial to any responsible party who is in the market for the same.

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 No. 84 rheostat for 110 volts, 1 enclosed knife switch, 12 feet of asbestos covered wire and 25 feet of stage cable. The floor base can be had with roller casters for moving the lamp around quickly.

No. 321. Studio Right Angle Feed Lamp, complete as above. \$85.00

For Violet Ray Carbons see page 66.

Studio Lamps Hand Feed Type

Our Hand Feed Studio Lamp is made exactly like our Automatic Feed Studio Lamp No. 321 with the exception that it is not equipped with the automatic feeding mechanism. Our hand feed lamp will give exactly the same photographic results that our automatic feed type gives, the only difference being that in our hand feed lamps the carbons have to be hand fed instead of feeding automatically as in our automatic feed lamp. Studios equipped with alternating current will find our hand feed lamp to be the best and most economical lamp to use.

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 No. 84 rheostat for 110 volts, 1 enclosed knife switch, 12 feet of asbestos covered wire and 25 feet of stage cable. The floor base can be had with roller casters for moving the lamp around quickly.

No. 1015. Hand Feed Studio Lamp, complete as above.....\$50.00

Lamps to Rent

We make a specialty of furnishing our Complete Portable Studio Lamp Outfits on rental with the services of an expert electrician. Special contracts entered into and carefully executed. Read our Rental Terms given on page 3 and write us as to your wants.

Portable Light Outfits

For Studio and Commercial Work

We make up Special Portable Outfits for commercial and studio work. We consider 4 lamps a unit, and we make up three outfits consisting of four, eight and twelve of our No. 321 Studio Lamps, without any rheostats. Each outfit is equipped with our special portable eight section No. 1009 Rheostat Outfit, which can be used on any current or voltage. Each rheostat outfit is equipped with four fused receptacles and plugs, so that each lamp is fused independently, and can be plugged in instantly. Each unit of lamps is equipped with 100 feet of main feed flexible Stage Cable No. 4, for carrying the full load of the lamps. Each outfit that we quote prices on below is complete in every detail and ready for use:

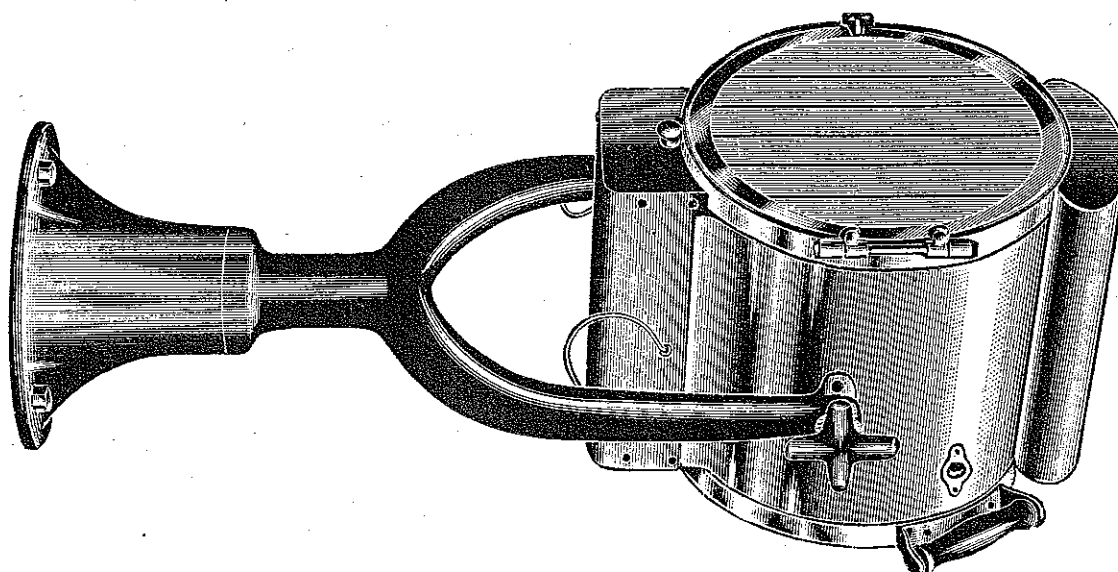
No. 1010 Portable Lamp Outfit consists of four of our No. 321 Studio Lamps without rheostats, but equipped with one of our No. 1009 Rheostat Outfits, 100 feet of No. 4 Flexible Stage Cable. Price\$ 410.00

No. 1011. Portable Lamp Outfit, consists of two of our No. 1010 Portable Outfits. Price..... 810.00

No. 1012. Portable Lamp Outfit, consists of three of our No. 1010 Portable Outfits. Price..... 1,200.00

For description on our No. 1009 Portable Rheostat, see page 43.

Searchlight No. 273



Searchlights

Searchlights

Our Searchlights are already well known, so will therefore give but brief description of same. The lamp house body is made of heavy sheet brass annealed with the front, back and trimmings made of heavy brass castings. The entire body is highly polished, thereby making a very attractive appearance. The yoke, or fork, is made of black iron, hollow cast for lightness. The light is supported on ball bearings and perfectly balanced on its turnions, so that it can be tilted or swung with the least possible friction. The mirror lens used in the lights is the very best Mangin ground glass. We make these lights up in four sizes and can furnish them equipped with the automatic or with the hand feed arc lamps. We recommend the hand feed, as this can be used on both the direct and alternating currents, whereas the automatic will only work on the direct current. Below we quote prices on the lights both ways equipped with the automatic or equipped with the hand feed lamps. Each outfit listed below is equipped with 12 feet of asbestos covered wire, 25 feet of stage cable, one enclosed knife switch, and one rheostat for 110 volts.

Cat. No.	Size of Light.	Rated Throw in Miles.	Candle Power.	Burns in Amperes.	Weight, Pounds.	Price with Hand Feed Lamp.	Price with Automatic Lamp.
271	8-Inch	$\frac{3}{4}$	1500	10	25	\$125.00	\$140.00
272	10-Inch	1	2500	15	60	150.00	165.00
273	15-Inch	$1\frac{1}{2}$	4000	25	115	225.00	240.00
274	18-Inch	$2\frac{1}{2}$	7000	35	208	425.00	440.00

Perfection Double Dissolving Stereopticon

Approved Fireproof Model.

Our Perfection Double Dissolving Stereopticon in just a short time 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.

The dissolving effect is produced by our Electric 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 bottom 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.

PRICE

Outfit No. 150 consists of 1 double dissolving stereopticon equipped with an electric dissolving shutter, 2 full mount 1½ size objectives, 2 90-degree arc lamps, 2 rheostats mounted in a single case, 2 metal mated slide carriers, 2 25-ampere fused switches enclosed in a metal box, 4 4½-inch condensers, 20 feet of asbestos wire, 25 feet of stage cable and 1 metal covered adjustable iron pipe table, that can be raised or lowered instantly. This table can be had with floor flanges for fastening solid to the floor, or with casters for moving around.

Price\$158.00

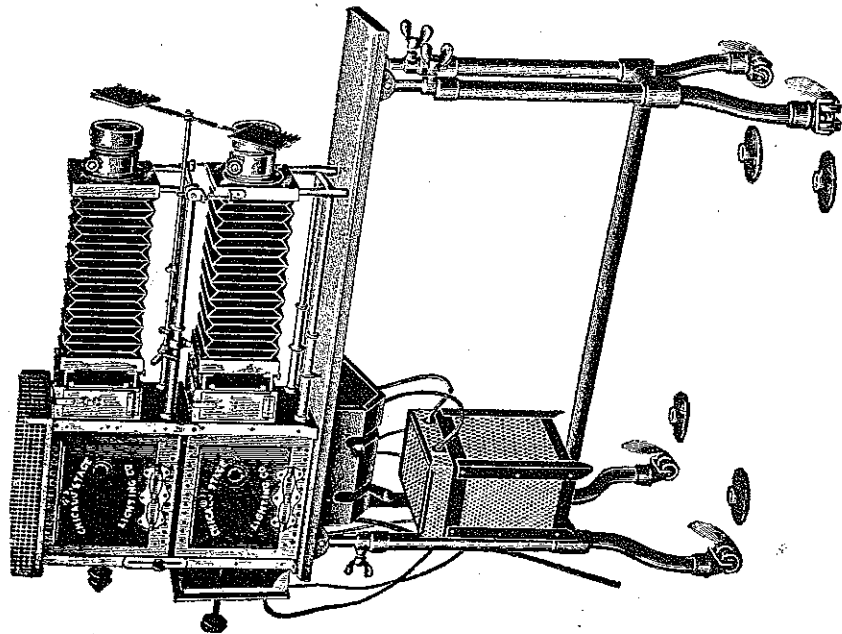
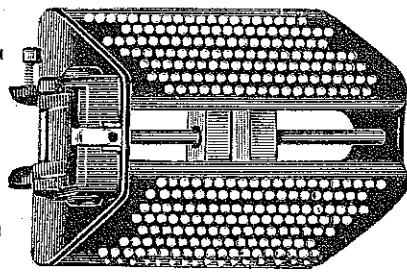


Illustration Above Shows

Perfection Double Dissolving Stereopticon Outfit No. 150

which is complete in every detail and when shipped is crated up with all connections made, so that all one has to do is to connect stage cable ends to wherever it is to be connected. Read description on opposite page and send for our special circular describing this outfit and our Single Stereopticon more fully.

Dimmers for Incandescent Spot Lamps



The above cut shows our latest type of dimmer made for controlling the new type of tungsten and nitrogen filled incandescent lamps such as used in our 1000 Watt Spot, 1000 Watt Bunchlight and Baby Spot Lamps. This dimmer is graduated very finely and is operated by moving a slider from the bottom to the top of the dimmer. The dimmer is entirely enclosed in a perforated ventilated case and is equipped with two set screws so that it can be easily and quickly attached to one of our lamp stands.

No. 289. Baby Spot Lamp Dimmer (length 10 inches, width 6½ inches, depth 4 inches, and weight 5½ pounds), 3½ amperes, 110 volts, for controlling one 100 candle power carbon, or one 250 Watt Tungsten Lamp, price each**\$12.00**

No. 1016. Thousand Watt Spot Lamp Dimmer (18¼ inches long, 4¼ inches wide, 4¾ inches deep, weight 14 pounds) for controlling one 1000 Watt Nitrogen Filled Lamp, in addition to the regular two set screws for attaching to any of our regular lamp stands is equipped with four wall plate ears so that the dimmer can also be attached to any flat surface by using four screws. Price each**\$20.00**

Theater Dimmers

We take pleasure in submitting our latest types of Theater Dimmer Plates for use in Theaters, Lodge Halls, Churches, Traveling Shows, etc. We make up two types, namely, Type A for mounting flat against the wall or switchboard and Type B for mounting at right angles to the wall or switchboard.

The resistance material is completely covered by a special moist and fire-proof composition. This composition plate is mounted in (and insulated from) an enameled cast-iron plate which covers the whole face, with the exception of the central portion, on which the copper contact segments are mounted. All current carrying parts are thoroughly insulated from the framework and operating mechanism. These plates are made in three sizes, 9, 12 and 16 inches in diameter. The greatest number of 16-candle power carbon lamps that one 16-inch plate will dim is 50 and for a greater number of lamps two or more plates will have to be used, same depending on the quantity. When using three or more plates of one size same can be had mounted in a row or bank, with one or more master levers and interlocking or non-interlocking at a small additional cost to the following prices on these plates.

When ordering be sure to furnish us with the following information, namely; the voltage, how many lamps you wish to control, if carbon lamps state candle power, if Tungsten lamps state wattage, and whether for 2 or 3 wire circuit. Prices on plates for 3-wire circuits quoted on application.

(over)

Theater Dimmers

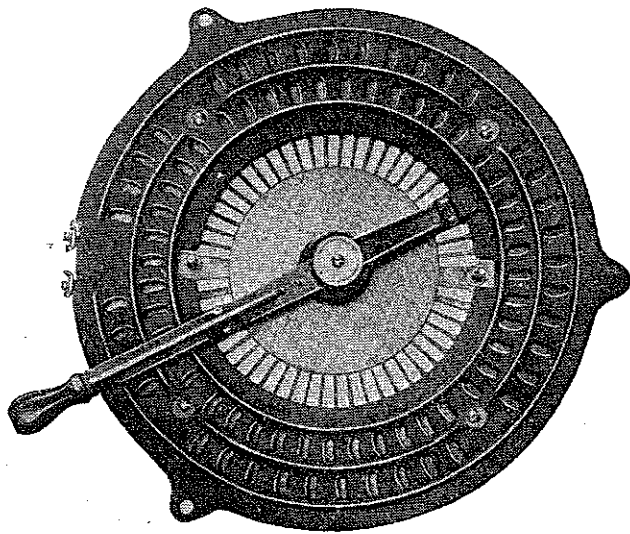
(Continued)

Below we give the catalog number, size of plates and the number of 16-candle power (55 watt) incandescent carbon lamps that each plate will dim and prices on both A and B Types.

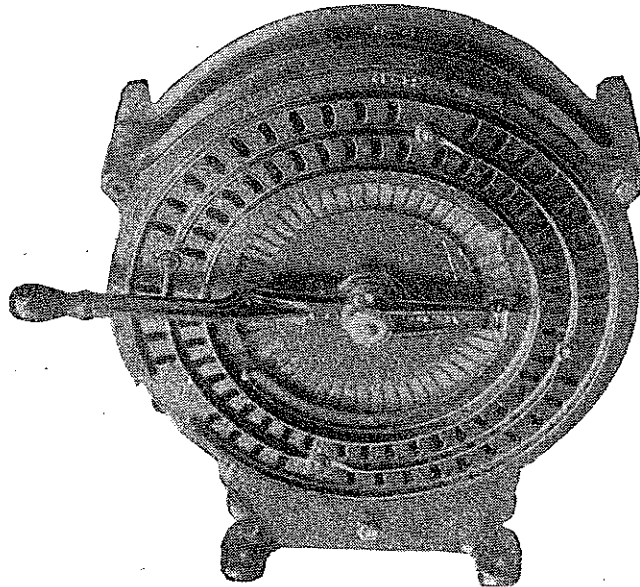
TYPE A

For 2-Wire, 110-Volt Circuits

Cat. No.	No. of Lamps	Size of Plate	Prices
324	4	9-inch	\$10.00
325	10	9-inch	10.00
326	12	9-inch	10.00
327	15	12-inch	14.00
328	20	12-inch	14.00
329	25	12-inch	14.00
330	30	16-inch	20.00
331	40	16-inch	20.00
332	50	16-inch	20.00



Type A



Type B

TYPE B

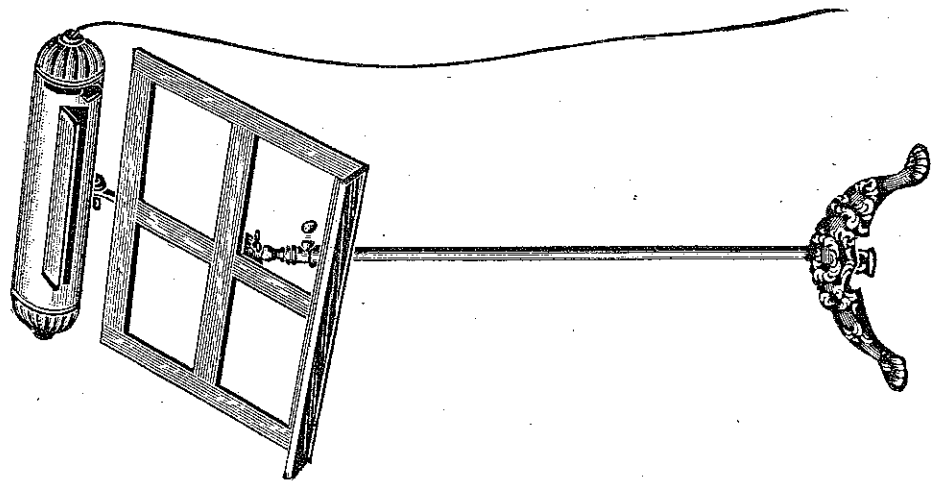
For 2-Wire 110-Volt Circuits

Cat. No.	No. of Lamps	Size of Plate	Prices
333	4	9-inch	\$12.00
334	10	9-inch	12.00
335	12	9-inch	12.00
336	15	12-inch	17.00
337	20	12-inch	17.00
338	25	12-inch	17.00
339	30	16-inch	22.00
340	40	16-inch	22.00
341	50	16-inch	22.00

Add \$5.00 to the above prices on plates for 2-wire, 220-volt circuits.

Send for our Complete Dinner Catalog.

Music Stands

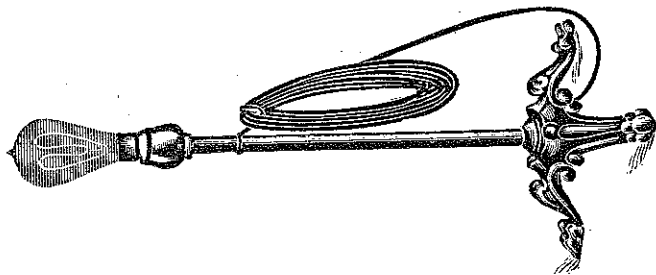


Our Music Stands for orchestra are made adjustable, so that the music rack can be raised, lowered, or tilted to any angle. The metal hood, in which the electric fixture is enclosed, is provided with a long slot opening which is adjustable, so that one can get a large or small opening through which the light is projected on the music sheets only. The metal hood is mounted on the music rack by a bracket that is adjustable, so that the hood can be tilted up or down.

No. 269. Music Stand, complete with metal hood and 5 feet of stage cable \$ 5.00

No. 270. Metal Hood only, complete with bracket for fastening to music rack..... 2.00

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 1/2-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. 253, page 53.

No. 367. Single Light Cleaning Stand \$3.50

No. 368. Four Light Cleaning Stand 4.00

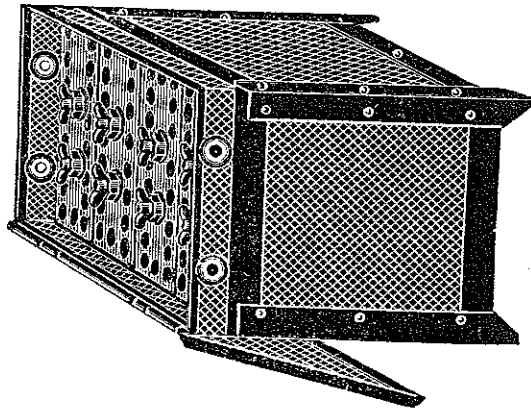
No. 369. Six Light Cleaning Stand. 4.50

Moon Box

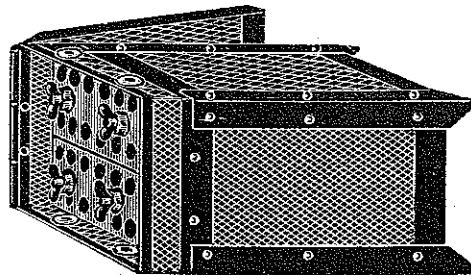
No. 381. Moon Box, for use behind a transparent drop, consists of a 20-inch square, 3-inch deep sheet iron box, with a 12-inch round opening, which is illuminated by four concealed lamps. Price, without stage cable or lamps 12.00

Mutiple and Series Rheostats

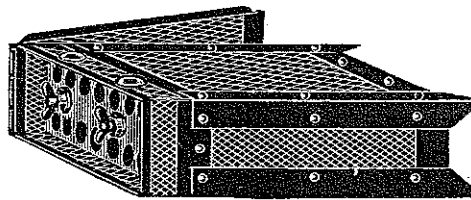
Adjustable to all Voltages



No. 82. Price, \$30.00. Weight, only 20 lbs.



No. 83
Price, \$20.00
Weight, only 11 lbs.



No. 83A
Price, \$10.00
Weight, only 6 lbs.

Our Mutiple and Series Rheostats

Our Multiple and Series Rheostat is made of a High Resistance Wire wound on porcelain insulators, held together by iron rods, perfectly insulated throughout, making it impossible to short circuit. The outer casing is equipped with a hinged top, and is made of sheet-iron perforated so as to give plenty of ventilation and pass the most rigid inspection laws. Made in four sizes.

Our No. 81 Rheostat consists of 5 separate rheostats, like our No. 83A, all enclosed in a single metal case, with each rheostat independent of the other, so that one or more can be used separately or together. The rheostat by a series of connections can be used on any current with a voltage ranging from 52 to 550, and give from $7\frac{1}{2}$ to 75 amperes of current, same depending on the way the rheostat is connected up and the voltage that it is worked on. Weight, only 25 lbs.

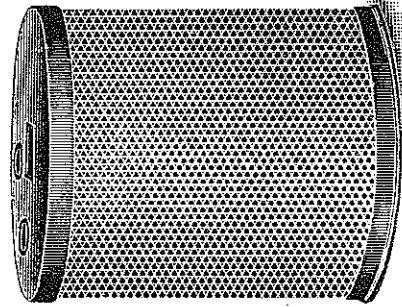
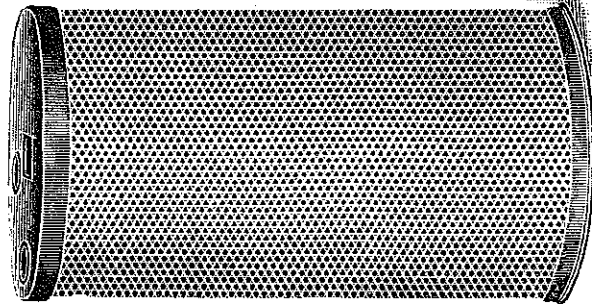
Price \$35.00

Our No. 82 Rheostat corresponds exactly to the description given on No. 81, with the exception that it consists of four separate rheostats in a single case, made to work on any voltage ranging from 52 to 450, and give an amperage ranging from $7\frac{1}{2}$ to 60.
Price \$30.00

Our No. 83 Rheostat corresponds exactly to the description given on No. 81, with the exception that it consists of two separate rheostats in a single case, made to work on any voltage ranging from 52 to 220 and give an amperage ranging from $7\frac{1}{2}$ to 30.
Price \$20.00

Our No. 83A Rheostat consists of a single rheostat in metal case, and is made for 110 volts. Made in two amperages, namely, 15 and 25.
Price \$10.00

Standard Rheostats

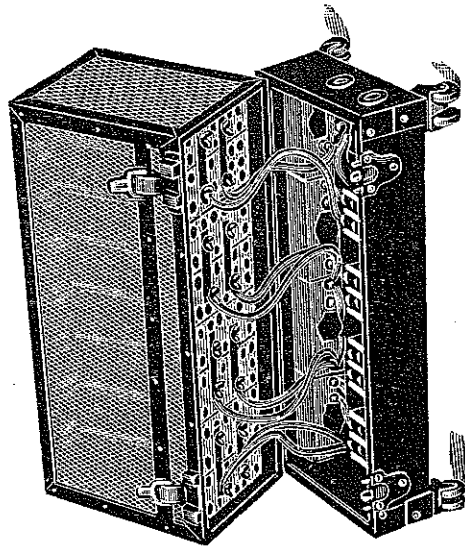


Rheostat No. 85. Rheostat No. 84.

Our Standard Rheostat is 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 galvanized finished metal case perforated for ventilation making it fireproof, so that it will pass the most rigid inspection laws.

No. 84. Standard Rheostat for 110 volts	\$10.00
No. 85. Standard Rheostat for 220 volts	18.00

Portable 8 Section Rheostat Plugging-In Outfit



We make a special portable combination 8-Section Rheostat and Fused Plugging In Outfit for handling our studio and other arc lamps on most any voltage. This outfit consists of 8 separate and distinct 110-volt rheostat sections, all mounted in a perforated upper or ventilated hinged top, with asbestos wire leads connecting to 4 cartridge fuse blocks and 4 No. 240 Receptacles equipped with 4 No. 239 Stage Plugs. The sections are also equipped with copper jumpers, so that most every conceivable connection can be made. The use of this outfit enables one to quickly plug in from one to four lamps, using only one main feed duplex stage cable to feed the lamps. Each receptacle is fused independently, thereby protecting the point where the main feed connections are made. The outfit is mounted on roller casters and is indispensable on account of being ready to deliver quick, sure service on any voltage and current.

No. 1009. Portable 8-Section Rheostat Plugging In Outfit... **\$100.00**

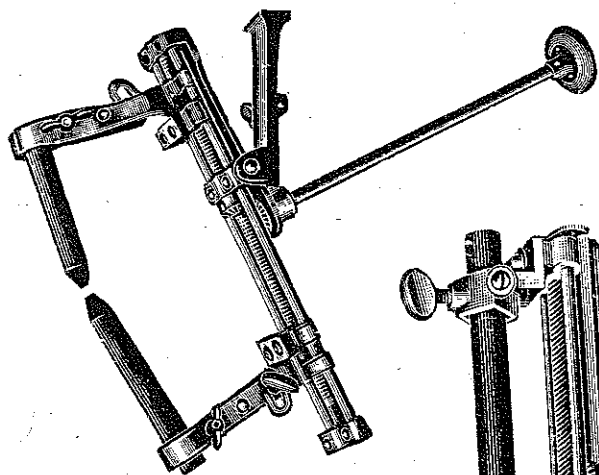
Electric Arc Lamps

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. 86 and 87 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 lens. Arc Lamp No. 87 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. 86 is the lamp which we equip all our Open and Reflector Lamps with and No. 87 which we equip all our Spot Lamps with.

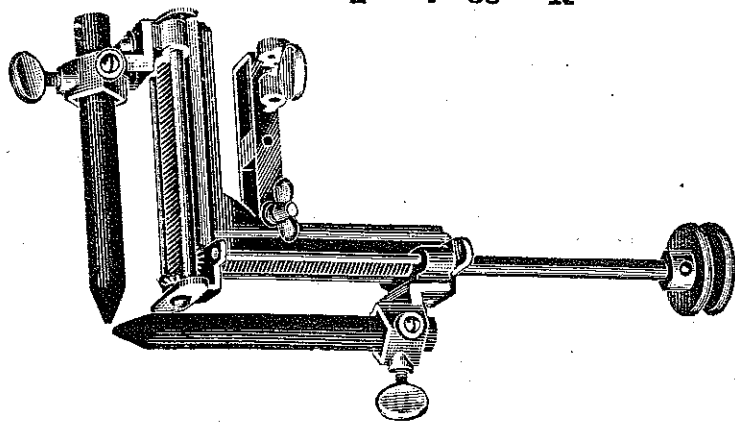
No. 86. Hand Feed Arc Lamp with handle extending from the bottom\$10.00

No. 87. Hand Feed Arc Lamp with handle extending from the back **10.00**

No. 88. 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 Double Dissolving Stereopticons and in Spot Lamps when so ordered..... **10.00**

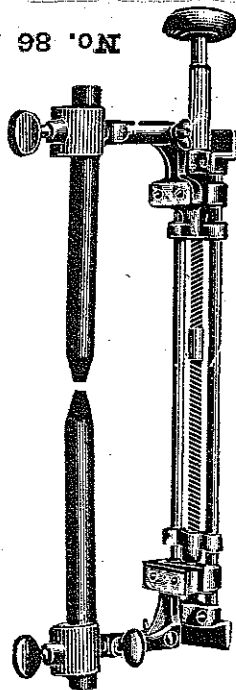


No. 87 Arc Lamp



No. 88 Arc Lamp

No. 86 Arc Lamp

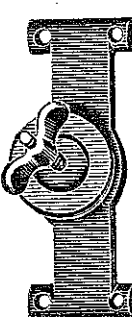
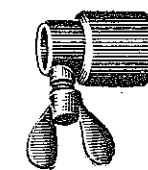
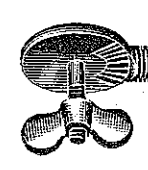
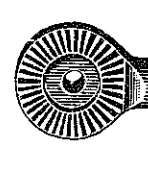
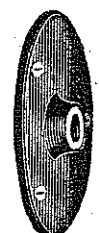
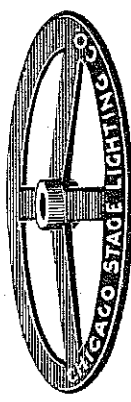
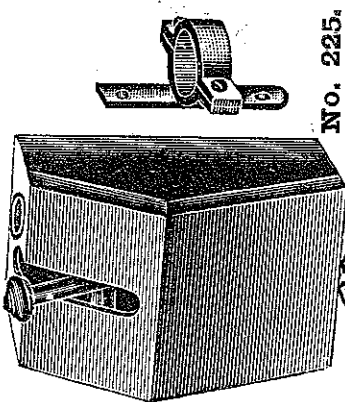
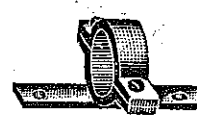


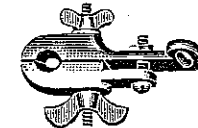
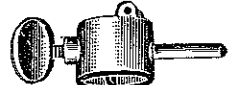
Arc Lamp Parts

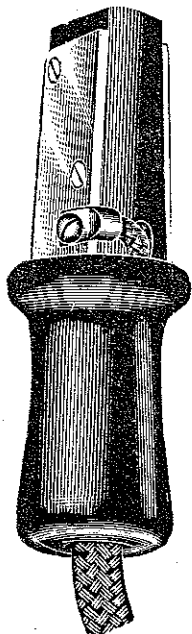
No. 212.	Carbon Holder to fit Arc Lamp No. 87.....	\$0.75
No. 354.	Carbon Holder, same as No. 212, for $\frac{3}{4}$ inch carbons	1.25
No. 213.	Carbon Holder to fit Arc Lamp No. 87.....	.75
No. 214.	Carbon Holder to fit Arc Lamp No. 86.....	.75
No. 215.	Carbon Holder to fit Arc Lamp No. 88.....	.75
No. 216.	Carbon Holder Arm for Arc Lamp No. 87.....	.75
No. 217.	Carbon Holder Arm for Arc Lamp No. 86.....	.75

When ordering catalog numbers 213, 216 and 217 be sure to state whether the upper or lower is desired.

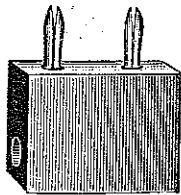
Repairs for Our Lamp Stands

	No. 218. Side Hanger.	\$1.25.
	No. 221. Knuckle Joint. Top Socket.	\$1.00.
	No. 220. Knuckle Joint. Knuckle Joint.	\$0.75.
	No. 219. Knuckle Joint. Top Socket.	\$0.50.
	No. 222. Flange	\$0.25.
	No. 223. Floor Base.	\$1.75.
	No. 224. 25-ampere not fused switch enclosed in metal box, without clamp. Price	\$1.50
	No. 225. Clamp for clamping switch box to stand. Price.....	.50

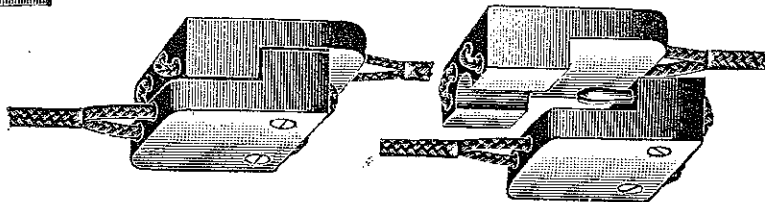
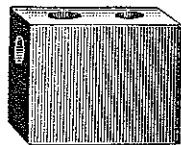
No. 212	
No. 213	
No. 214	
No. 216	
No. 217	



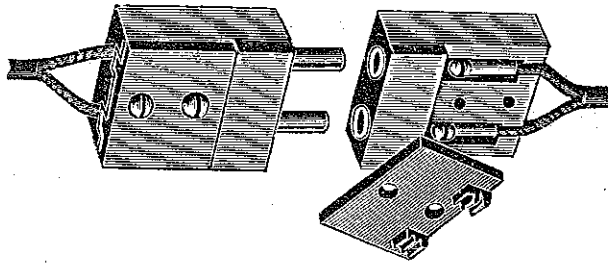
No. 239.
Stage Plug.



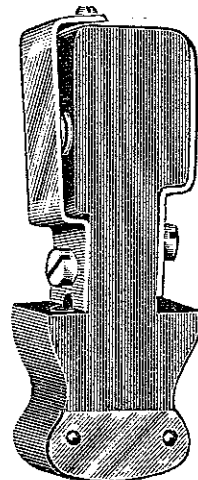
No. 237.
Slip Connector
Opened.



No. 233 Pull Tight Connector Opened
and Closed.



No. 361 Slip Connector Opened.



No. 238
Stage Plug.

Stage Slip Connectors

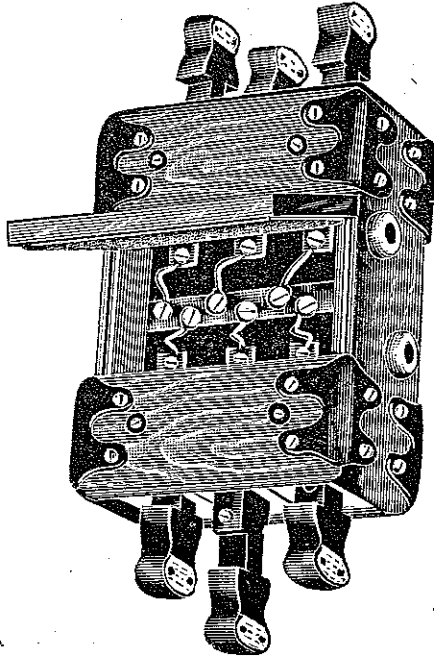
We carry two styles of Stage Slip Connectors, and they are all made of red or black fibre, with strong and heavy contacts. Our Approved Stage Connector has been made according to the underwriters' requirements and they will pass the most rigid inspection laws. The approved connectors are all equipped with a wire or stage cable grip, so that the strain is taken off the screws where the wire connections are made. Our other style, the Pull Tight Connectors, are well known and will pass most of the inspection laws with the exception of those of large cities.

- No. 233. Pull Tight Connector for 15 amperes, 125 volts each.....\$0.75
- No. 234. Pull Tight Connector for 25 amperes, 125 volts, each..... 1.25
- No. 359. Approved Stage Connector for 5 amperes, 125 volts, each.... .90
- No. 360. Approved Stage Connector for 15 amperes, 125 volts, each.. 1.25
- No. 361. Approved Stage Connector for 30 amperes, 125 volts, each.. 1.75
- No. 237. Small Connector for battery work, each..... .50

Stage Plugs

- No. 238. Fibre Stage Plug to fit Plugging Boxes. Each.....\$2.00
- No. 239. Stage Floor Plug. Each.. 1.25
- No. 240. Porcelain Receptacle for Stage Plug No. 239. Each..... 2.50

Portable Stage or Spider Pocket Case

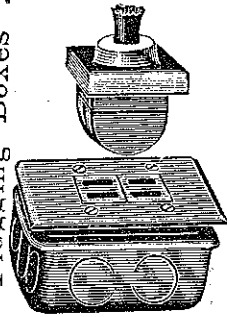


Our Portable Stage or Spider Pocket consists of a strong wooden case bound with iron, with two swing doors, one on each side. Each door opens to a fuse plate, which, with the pockets or receptacles in both ends of the case, are lined with slate and asbestos, making it impossible to short circuit; fireproof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

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

Prices below include plugs.

No. 103. Plugging Box, 2 pockets. \$ 9.00
No. 241. Plugging Box, 4 pockets. 18.00
No. 242. Plugging Box, 6 pockets. 27.00
No. 243. Plugging Box, 8 pockets. 36.00
No. 244. Plugging Box, 10 pockets. 45.00
No. 245. Plugging Box, 12 pockets. 54.00
No. 238. Extra Plug to fit the above Plugging Boxes 2.00



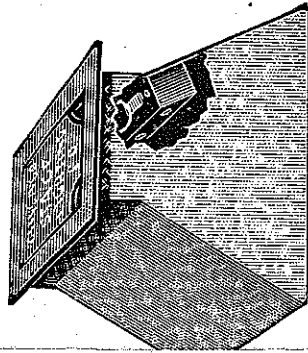
No. 370. Disappearing Door Flush Square Metal knockout box with 25-ampere, 250-volt receptacle and plug... \$5.50
No. 371. Above plug separate... 1.50
No. 372. Above receptacle separate 1.50

Approved Metal Stage Floor Boxes

For holding Plugs and Receptacles beneath the stage floor.

No. 228. Metal Stage Floor Box, with iron top, without receptacle or plug \$2.50

No. 229. Iron Floor Top, only, no metal box .. \$1.50



For prices on Receptacle and Plug, see Receptacle No. 240 and Plug No. 239, listed on page 49.

Metal Boxes for Switches, Etc.

We make up all kinds of metal boxes to order to enclose switches, receptacles, dimmers, etc., and for other goods that have to be enclosed in a metal box. The boxes we make to hold switches entirely enclose the switch and only have a slotted opening so that the switch can be opened or closed. Below we quote prices on the metal boxes that we carry in stock already made up.

No. 224. Metal Box to hold a 25-ampere not fused knife switch... \$1.50

No. 226. Metal Box to hold a 50-ampere not fused knife switch.. 3.00

No. 227. Metal Box to hold two 25-ampere cartridge fused knife switches 6.00

No. 264. Metal Box with spring-hinged door to hold one receptacle No. 240..... 2.00

Copper Lugs or Terminals

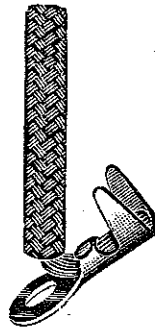
Illustrations Below Show How to Connect Wires.



No. 230.
Copper Lug.



First Operation.



Second Operation.



Last Operation.

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.

No. 232. Copper Lug with 13-64 inch hole or No. 8 to 12 wire.
Each \$0.04

No. 231. Copper Lug with 17-64 inch hole for No. 8 to 12 wire.
Each04

No. 232. Large Copper Lug with 1/4-inch hole for No. 4 to 6 wire.
Each05

For Colored Gelatine see page 15.

For Lenses see pages 59 to 63.

Stage Cable

Our approved Red Core Flexible Duplex Stage Cable is universally known to be the best and most flexible stage cable on the market today. Below we quote prices on the six sizes we carry in stock. Prices subject to market fluctuations.

Cat. No. 250.	No. 4 Stage Cable,	per foot \$0.25
Cat. No. 251.	No. 6 Stage Cable,	per foot20
Cat. No. 252.	No. 10 Stage Cable,	per foot10
Cat. No. 253.	No. 14 Stage Cable,	per foot08
Cat. No. 254.	No. 16 Stage Cable,	per foot07
Cat. No. 382.	No. 18 Stage Cable,	per foot06

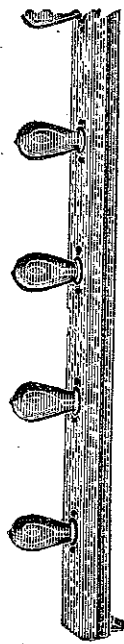
Asbestos Covered Cable

Our approved Single Conductor Stranded Asbestos Covered Cable is flexible and is noted for its lasting qualities. Carried in three sizes.

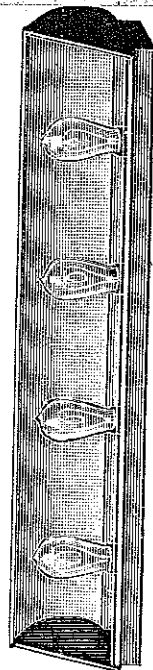
Cat. No. 255.	No. 6 Asbestos Covered Cable, per foot..... \$0.08
Cat. No. 257.	No. 10 Asbestos Covered Cable, per foot..... .05
Cat. No. 370.	No. 14 Asbestos Covered Cable, per foot..... .04

We can furnish **No. 12 Border Light Cable** in conductors from three to twelve. Prices quoted on application, same depending on the number of feet desired.

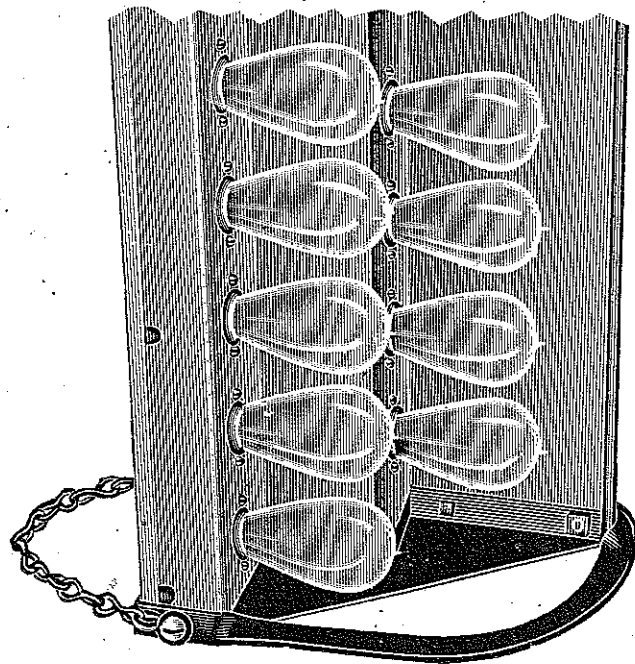
Border, Foot, Strip And Procenium Lights



Foot or Strip Light

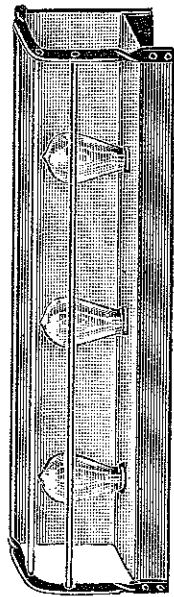


Border, Foot or Strip Light



Two Row or Double Step Border or
Foot Light

Border, Foot, Strip and Procenium Lights

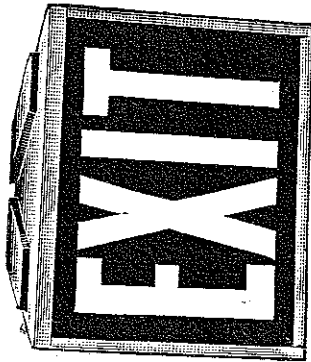


Procenium Light

We make up to order all styles of Border Lights, Footlights, Strip Lights and Procenium Lights, and if we do not illustrate the style you wish write us, sending sketch or explanation and we will quote you prices. We aluminum bronze finish all reflector surfaces on the styles we make, as this gives a greater reflection than the white enamel finish. We paint all other surfaces with a dead black finish. If any other finish is desired specify so when asking for prices. The wiring boxes on all of our Border, Foot, Strip and Procenium Lights are made of 20-gauge galvanized iron. All Border Lights are equipped with looped iron chains, so that they can be hung in any position.

When writing for prices or ordering do not fail to state style wanted, length of same, number of sockets, number of circuits, number of sockets on each circuit, and also from which end you wish the feed wires to come out on when you stand on the stage looking out into the auditorium.

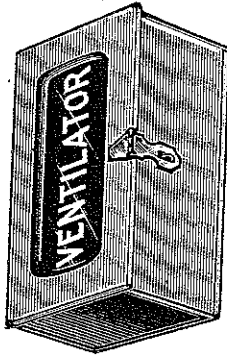
Exit and Fire Escape Boxes



Our Exit and Fire Escape Boxes are made so that either electric, gas or sperm oil lamps can be used in them. The letters are all etched on ruby glass.

- No. 259. Exit Box, 6-inch high letters. Each **\$2.00**
 No. 260. Fire Escape Box, 6-inch high letters. Each..... **3.75**

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.

- No. 263. Ventilator Box, without switch **\$1.75**
 We make up two styles of Ventilator Magnets enclosed in a metal case with hinged door. As one cannot make a magnet work satisfactorily on alternating current, we make one to work on batteries (blue vitrol battery recommended) and one to work on direct current.
 No. 261. Ventilator Magnet, 110-volt direct **\$10.00**
 No. 262. Ventilator Magnet, for battery use **8.00**

Lamp Coloring



Lamp Coloring consists of a chemical solution for coloring incandescent lamps or globes, by a simple process of dipping each lamp in the solution. We carry two kinds of lamp coloring, one for coloring lamps used indoors or outdoors, which we call permacolor and which is weatherproof. Lamps colored by Permacolor will positively not be affected by the weather elements and they can be washed and cleaned without the color fading or coming off. Our other, the Standard Coloring, is used for coloring lamps used indoors, and the color will outlast the life of the lamp, as it does not peel off. Both of the above grades carried in all colors and when ordering state colors desired.

- No. 355. Standard Coloring, 1/2 pint. **\$0.60**
 No. 253. Standard Coloring, 1 pint.. **1.00**
 No. 104. Standard Coloring, 1 quart **1.75**
 No. 356. Permacolor, 1/2 pint..... **1.00**
 No. 357. Permacolor, 1 pint..... **2.00**
 No. 358. Permacolor, 1 quart..... **4.00**

Stop Cracking Condensers

We have imported three sizes of Hardened Round Clear Flat Glass Disc for placing between the condenser and are lamp to protect your condensers from cracking.

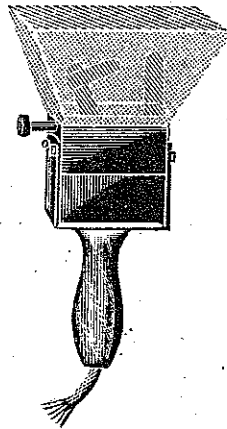
- No. 281. Hard Disc, 4 1/2 inches... **\$0.75**
 No. 282. Hard Disc, 6 inches..... **1.00**
 No. 283. Hard Disc, 8 inches..... **1.25**

Lobsterscope Or Flicker Effect

The Lobsterscope consists of an 18-inch disc with 2 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 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 have been increased and as if they are moving very rapidly.

No. 322. Lobsterscope, as above..\$6.00

Flash Lightning Effects



No. 323

No. 323. Hand Feed Flash Lightning Effect is small, compact with all contact points enclosed and wire gauze front so as to pass rigid inspection laws. The flash is produced by pushing down an insulated push button, which makes a metal and carbon point contact. Price.....\$ 7.60

No. 203. Hand Feed Flash Lightning, consisting of Cat. No. 323, equipped with rheostat and 25 feet of stage cable. Price..... 23.00

No. 204. Streak Lightning Lantern Slides, for use in stereopticons (6 different designs). Price, each 1.50

Condensing Lenses

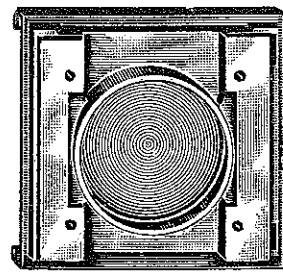


Our condensing lenses made to use in Spot Lamps, Stereopticons, Moving Picture Machines and Enlarging Machines are made of the best optical ground glass so as to allow the greatest amount of illumination to pass through them.

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.	Size Diam.	Focus in Inches.	Prices Each.
114	4 1/2 inch	6 1/2, 7 1/2, 8, 9, 10, 12 or 14	\$ 0.75
277	5 inch	5 1/2 inch focus	2.25
115	5 inch	7, 9, 10, 12 or 14	1.50
117	6 inch	6 1/2 inch focus	2.75
116	6 inch	9, 10, 12 or 14	2.25
118	8 inch	10 or 12	6.00
278	9 inch	Standard focus	10.00
279	10 inch	Standard focus	13.50
280	12 inch	Standard focus	27.00

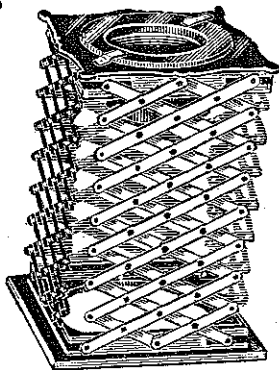
Sciopticon Condenser Holder No. 4



Our Sciopticon Condenser Holder No. 4 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.

No. 4. Sciopticon Condenser Holder \$7.50

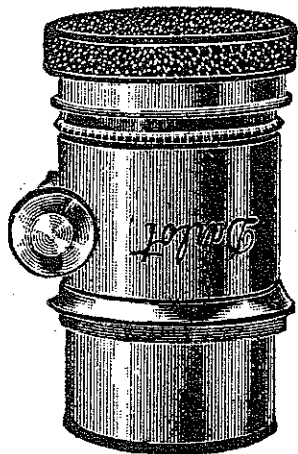
Improved Sciopticon Objectives



Our Improved Sciopticon Objective for projecting our Electric Stage Effects is far superior to the old style, cone-shape sciopticon objective. When using the old style objective, to make the same size picture at various distances, it necessitated going to the great 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 $3\frac{1}{2}$ -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. 362.** Improved Sciopticon Objective, 4-inch focus.....\$20.00
- Cat. No. 363.** Improved Sciopticon Objective, 6-inch focus, or any one of the following focuses: 8, 10, 12, 16, 18 or 20 inch..... 15.00
- Cat. No. 105.** Old Style Cone-Shape Sciopticon Objective, 8 to 20-inch focus 12.00
- Cat. No. 113.** Sciopticon, $3\frac{1}{2}$ -inch diameter. Lenses 6, 8, 10, 12, 16, 18 or 20-inch focus. Per pair 3.00

Stereopticon Objectives



Our Stereopticon Objectives are made of the best optical ground glass and are mounted in a heavy brass tubing with a milled head thumb screw for focusing. The objectives are perfect in construction and can be supplied in matched pairs. Below will be found a list showing the different size objectives we carry and the different focuses that can be had in these sizes. When ordering be sure to state the focus of objective desired.

Cat. No.	Size of Objective.	Focus in Inches.	Prices Each.
106	1/4	6	\$ 8.00
107	1/4	12, 14, 16, 18 or 20.	6.00
108	1/3	8	12.00
109	1/2	10, 12, 14, 16, 18, 20, 24, 27 or 30....	15.00
110	2/3	12	21.00
111	4/4	15	32.00

Special Brand Stereopticon Objectives

We have imported a Special Brand of Stereopticon Objectives that are made only in the full one-half size mountings. These objectives are finely made and sell at a very reasonable price. We carry the following focuses, 12, 14, 16, 18, 20, 22, 24, 26 and 30 inch in stock, and when ordering be sure to state the focus desired or tell us just what size picture you wish to project and the distance between your machine and curtain so that we can send the correct objective.

No. 364. Special Brand Stereopticon Objective, any focus as given above. Each\$12.50

Scale for the New Adjustable Stereopticon Objective

The focus range of our Adjustable runs from 9 1/4 to 22-inch focus and below we print a scale showing the smallest size up to the largest size picture you can get at certain distances.

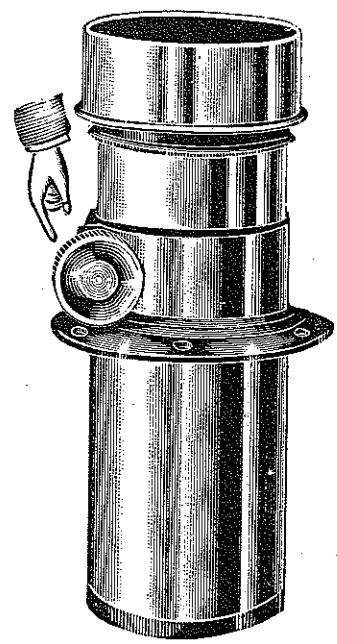
Distance.	Any Size Picture From
At 5 ft. will project	1 1/2 up to 1 1/2 ft.
At 10 ft. will project	1 up to 3 1/8 ft.
At 15 ft. will project	1 3/4 up to 4 1/2 ft.
At 20 ft. will project	2 1/2 up to 6 1/4 ft.
At 30 ft. will project	3 3/4 up to 9 1/2 ft.
At 40 ft. will project	5 1/4 up to 12 3/4 ft.
At 50 ft. will project	7 up to 16 1/4 ft.
At 60 ft. will project	8 up to 19 1/4 ft.
At 70 ft. will project	9 7/8 up to 22 1/2 ft.
At 80 ft. will project	10 3/4 up to 25 3/4 ft.
At 90 ft. will project	12 up to 29 ft.
At 100 ft. will project	13 1/4 up to 32 1/4 ft.
At 110 ft. will project	14 1/2 up to 35 1/4 ft.
At 120 ft. will project	16 up to 38 1/2 ft.

Stereopticon Objective Scale

Showing the size pictures each focus objective will project at certain given distances.

Focus, Inches.	At 33 1/3 ft.	At 66 2/3 ft.	At 100 ft.
6 in.	15 ft.	31 ft.	50 ft.
8 in.	13 ft.	27 ft.	42 ft.
10 in.	11 ft.	23 ft.	35 ft.
12 in.	7 1/2 ft.	15 ft.	21 1/4 ft.
14 in.	6 1/2 ft.	13 ft.	19 1/2 ft.
16 in.	5 3/4 ft.	11 1/2 ft.	17 1/4 ft.
18 in.	5 1/6 ft.	10 1/3 ft.	15 1/2 ft.
20 in.	4 2/3 ft.	9 1/3 ft.	14 ft.
22 in.	4 1/6 ft.	8 1/3 ft.	12 1/2 ft.
24 in.	3 2/3 ft.	7 1/6 ft.	11 ft.
27 in.	3 1/3 ft.	6 2/3 ft.	10 ft.
30 in.	2 5/6 ft.	5 2/3 ft.	8 1/2 ft.

The New Adjustable Stereopticon Objective



We take great pleasure in submitting our New Adjustable Stereopticon Objective to those who have found it necessary to carry from four to six different focus stereopticon objectives, so as to be sure that they will be able to project the necessary size picture to fill the curtain at all distances. Even with a large number of different focus objectives one cannot always get the size picture desired without moving the curtain or stereopticon forward or back.

With one of our New Adjustable Stereopticon Objectives the trouble, worry and strain as to whether you will be able to get the size picture you want at your next stop is overcome, because it will project more different size pictures than twenty-five different focus stereopticon objectives will do.

To change the size of the picture with this adjustable objective you simply turn the rack and pinion thumb screw and focus by moving the stereopticon front forward or back.

Cat. No. 275. New Adjustable Stereopticon Objective\$25.00

Note.—On page 62 will be found a scale showing the smallest up to the largest size pictures that our New Adjustable will project at certain given distances.

Allowance for Parts Omitted From Our Outfits

Below will be found a list showing just the amount we will allow to be deducted from list prices on our outfits when purchasing same with certain parts omitted.

Adjustable Iron Pipe Table, omitted from Cat. No. 150, deduct....	\$ 9.00
Adjustable Iron Pipe Table and Switchbox, omitted from Cat. No. 150, deduct.....	12.40
Adjustable Iron Pipe Table, Switchbox, Asbestos Wire and Stage Cable, omitted from Cat. No. 150, deduct	15.40
Adjustable Iron Pipe Table, Switchbox, Asbestos Wire, Stage Cable, 4 Condensers, 2 Objectives, Slide Carriers and Rheostats, omitted from Cat. No. 150, deduct.....	57.00
Bunchlight Hood and Stage Cable, omitted from Cat. No. 73, deduct	5.50
Condenser, 6-inch, omitted from Cat. No. 201, deduct.....	1.75
Iron Stand, omitted from Cat. Nos. 73, 210 or 211, deduct.....	3.40
Iris Shutter, omitted from Cat. No. 316, deduct	6.35
Lamp, 100 candlepower, omitted from Cat. Nos. 205 or 206, deduct	1.50
Metal Case and Clockworks, omitted from Cat. Nos. 13 to 70, deduct	25.00
Objective, 1/4 size, omitted from Cat. No. 7, deduct.....	3.40
Objective, 1/2 size, omitted from Cat. No. 316, deduct.....	11.25
Objectives, 1/2 size, two omitted from Cat. No. 150, deduct.....	22.50

(Continued.)

Allowance for Parts Omitted From Our Outfits—Continued

Open Lamp Hood with Arc Lamp and Asbestos Wire, omitted from Cat. No. 71, deduct.....	\$20.50
Rheostat, omitted from Cat. Nos. 1, 2, 3, 71, 72, 72B, 315, 316 or 321, deduct	7.50
Rheostats, omitted from Cat. No. 150, deduct	15.00
Rheostat, Iron Stand, Switchbox and Stage Cable, omitted from Cat. Nos. 1, 2, 3, 71, 72, 72B, 315, 316 or 321, deduct.....	14.65
Spot Lamp Hood with Arc Lamp and Asbestos Wire, omitted from Cat. No. 1, deduct.....	25.50
Stage Cable, omitted from Cat. Nos. 1, 2, 3, 71, 72, 72B, 150, 315, 316 or 321, deduct.....	1.90
Stage Cable omitted from Cat. Nos. 73, 205, 206, 210 or 211, deduct	1.50

Sundries

Cat. No. 373. Exit Glass for No. 259 Box	\$ 1.00
Cat. No. 374. Fireflies (Small Pea Lamp and Cord). Each.....	.30
Cat. No. 375. Firegrate, consisting of an iron grate with lumps of broken glass, colored like heated coal and illuminated by three concealed incandescent lamps, with 25 feet of stage cable....	25.00
Cat. No. 376. Iris Shutter, for Spot Lamp	15.00
Cat. No. 377. Iris Shutter, for Stereo Spot Lamp.....	8.50
Cat. No. 378. Metal Covered, Adjustable Iron Pipe Table (see page 32)	12.00
Cat. No. 379. Metal Switchbox, with 60 Amp. D. P. Double Throw Switch	6.00
Cat. No. 380. Metal Tube, 3x22 inches, for holding gelatines. Each	.35

Carbons

We carry a full stock of the celebrated high grade Nuernberg Electra Carbons, commercially known as the Pink Label Electra Carbons, which are specially adapted for use on both direct and alternating currents.

Cat. No.	Price per 1,000, Solid.	Size, Inches.	Cat. No.	Price per 1,000, Cored.
290	Prices on Appli- cation.	1/2 x 6	383	Prices on Appli- cation.
291		5/8 x 6	384	
292		3/4 x 6	385	
293		5/8 x 7	386	
100		1/2 x 12	387	
101		5/8 x 12	388	
365		3/4 x 12	389	

Special prices quoted on quantities.

Violet Ray Carbons

For Moving Picture Photographers, Photo Engravers, Etc., Etc.

We carry a full stock of imported high-grade impregnated carbons, which produce a Violet Ray Light that is unsurpassed for photographic quality.

When working direct current, carbon No. 306 should be used as the upper and carbon No. 307 or No. 366 as the lower. On alternating current, carbon No. 308 should be used on both upper and lower.

Cat. No.	Size, Inches.	Price per 1,000.	Price per 100.
306	3/8 x 12	Prices on Appli- cation.	Prices on Appli- cation.
307	1/2 x 12		
308	3/8 x 12		
366	1/2 x 7		

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CALENDAR.

JANUARY							JULY						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
2	3	4	5	6	7	8	2	3	4	5	6	7	8
9	10	11	12	13	14	15	9	10	11	12	13	14	15
16	17	18	19	20	21	22	16	17	18	19	20	21	22
23	24	25	26	27	28	29	23	24	25	26	27	28	29
30	31						30	31					
FEBRUARY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5			1	2	3	4	5		
6	7	8	9	10	11	12	6	7	8	9	10	11	12
13	14	15	16	17	18	19	13	14	15	16	17	18	19
20	21	22	23	24	25	26	20	21	22	23	24	25	26
27	28	29					27	28	29	30	31		
MARCH							SEPTEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
5	6	7	8	9	10	11	3	4	5	6	7	8	9
12	13	14	15	16	17	18	10	11	12	13	14	15	16
19	20	21	22	23	24	25	17	18	19	20	21	22	23
26	27	28	29	30	31		24	25	26	27	28	29	30
APRIL							OCTOBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
2	3	4	5	6	7	8	1	2	3	4	5	6	7
9	10	11	12	13	14	15	8	9	10	11	12	13	14
16	17	18	19	20	21	22	15	16	17	18	19	20	21
23	24	25	26	27	28	29	22	23	24	25	26	27	28
30							29	30	31				
MAY							NOVEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
7	8	9	10	11	12	13	5	6	7	8	9	10	11
14	15	16	17	18	19	20	12	13	14	15	16	17	18
21	22	23	24	25	26	27	19	20	21	22	23	24	25
28	29	30	31				26	27	28	29	30		
JUNE							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
4	5	6	7	8	9	10	3	4	5	6	7	8	9
11	12	13	14	15	16	17	10	11	12	13	14	15	16
18	19	20	21	22	23	24	17	18	19	20	21	22	23
25	26	27	28	29	30		24	25	26	27	28	29	30
							31						