

Klieglights

www.klieglbros.com

and other STUDIO LIGHTING EQUIPMENT
and ACCESSORIES – *for* MOTION PICTURE
SOUND *and* COMMERCIAL PHOTOGRAPHY

Bulletin No. 106



KLIEGL BROS

UNIVERSAL ELECTRIC STAGE LIGHTING Co., INC.

321 WEST 50th STREET

NEW YORK, N.Y.

www.klieglbros.com
THE NEW
Klieglights

RADICALLY DIFFERENT from anything heretofore produced. Entirely new in principle and design. These new Klieglights are decidedly more efficient in operation, more flexible in control, and more widely universal in application than any known present day studio equipment. They can be used for either spot or flood lighting, for long or short range work—particularly where a very definite cut-off or well defined area of high-intensity illumination is required. They offer the highest efficiency ever achieved in lighting units of their kind—giving several times more light output than conventional arc or incandescent units of much greater wattage.

The light is absolutely uniform throughout the illuminated area, and the shape of the light beam can be made to conform to any desired pattern—round, square, triangular, rectilinear, semi-circular, etc. of innumerable dimensions—from a pin point to full lens opening—by an arrangement of iris and framing shutters with which it is provided. It thus affords a wide range, variety, and simplicity of controls.

They are furnished equipped with a single or double lens system, as listed, mounted on a movable carrier for regulating the spread or intensity of the light; and with adjustable framing and iris shutters for regulating the size and shape of the light beam.

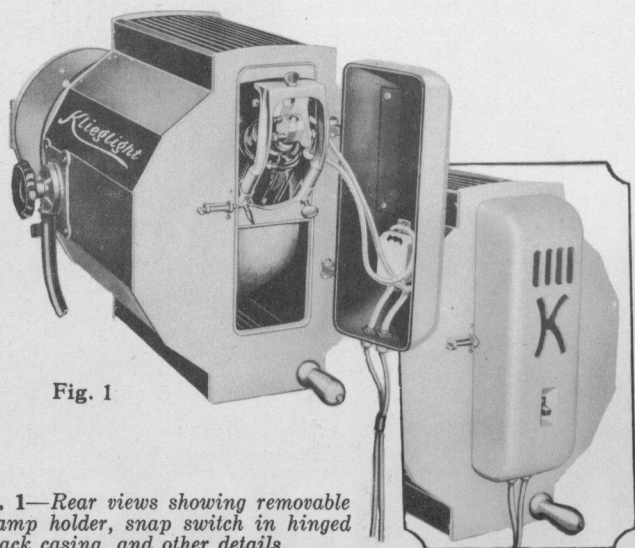
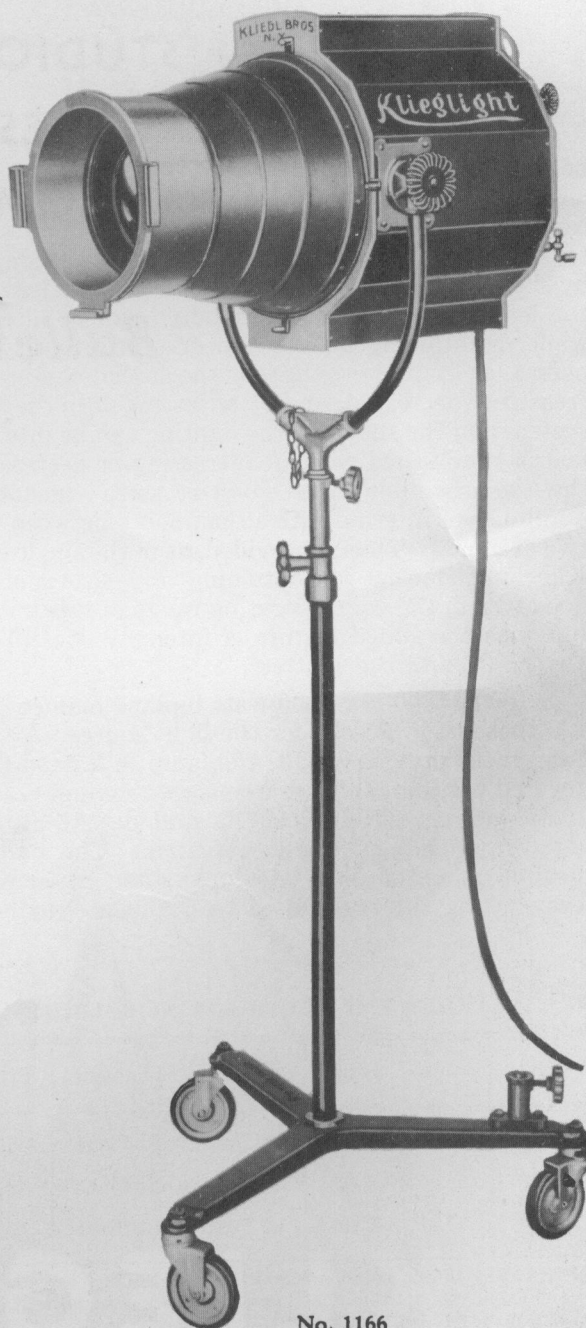


Fig. 1

Fig. 1—Rear views showing removable lamp holder, snap switch in hinged back casing, and other details.

No. 1166

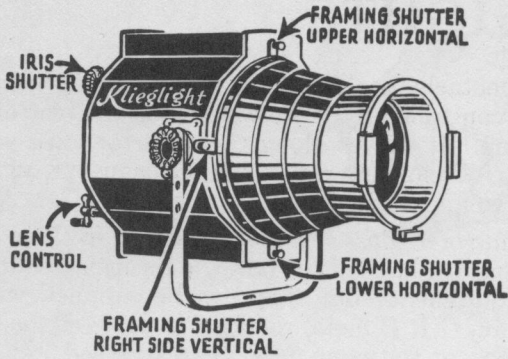


Fig. 2—Showing the location of the various controls on Klieglight unit No. 1168F.

No. 1168F has an additional feature in respect to beam control. By means of its adjustable double lens system, in conjunction with the adjustable shutters, both the size of the field illuminated and its intensity can be varied in several ways. For example, by simply changing the shutter opening and leaving the lenses set, the area illuminated can be altered while maintaining the same degree of intensity as before; or by moving the lens the spread can be increased or decreased; and by adjusting both the lens system and the shutters, the lighting can be intensified or diminished without increasing or decreasing the size area illuminated—or vice versa—including a number of intermediate adjustments between the two extremes. Thus is provided, as in the single lens Klieglight, means for obtaining any size spot or flood within the wide operating range of this unit—but with the added feature of intensity control for any position of the shutters.

A 1000-, 1500-, or 2000-watt biplane filament bi-post base lamp is used for the light source. An arrangement provided holds the lamp in a fixed pre-focused position; and a first-surface rhodium G R C metal mirror reflector collects and directs all the light rays through the lens system. The unit is flexibly mounted on a telescopic stand fitted with easy-rolling rubber-tired casters, and an auxiliary

support on the base permits the unit to be set close to the floor when required.

The lamp housing is thoroughly air cooled, with vent openings top and bottom, which allow a continuous passage of air through the hood—thus prolongs the life of the lamp, and insures cool, economical operation. Lightproof screens on all vents prevent light leakage. A heavy-duty tumbler switch is mounted in the hinged back casing of the lamp housing.

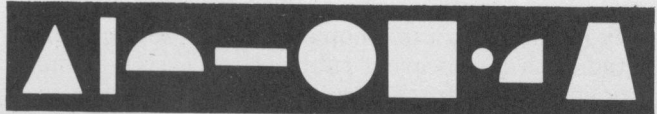


Fig. 3—Illustrating the various beam shapes that can be obtained by a simple adjustment of the iris and framing shutters.

KLIEGLIGHTS, PORTABLE MODELS, FOR STUDIOS

No.	Description	Price*
1166	Single-lens type; with 6" dia. heat-resisting lens; two horizontal and two vertical adjustable shutters independently operated; an iris shutter; and slide grooves for color frame or diffusing screen (No. 570—10"x11"). Mounted on telescopic stand, with 4" rubber-tired casters; furnished with 25 ft. of rubber cable and heavy-duty tumbler switch. Weight 83 lbs.....	\$150.00
1168	Single-lens type; for long distance projection; with 8" dia. lens; otherwise same as No. 1166. Weight 85 lbs.....	155.00
1168F	Double-lens type; with 6" and 8" heat-resisting lenses mechanically coupled and operated from the rear; an iris shutter with rear control; and four independently adjustable framing shutters directly operated—otherwise similar to No. 1166. Weight 86½ lbs.....	185.00

* Lamps not included in list price.

INCANDESCENT LAMPS FOR KLIEGLIGHTS

Watts	Volts	Bulb	Base	Filament	Price
1000	115	T 24	Bi-Post	Bi-Plane	\$11.50
1500	115	T 24	Bi-Post	Bi-Plane	13.75
2000	115	T 30	Bi-Post	Bi-Plane	15.25

NOTE: The lamps listed are 200 hour life. They can also be furnished 25 hour life, at the same price—which will give about 40 per cent more light.



1500-watt T24 Bi-post Base

Klieg-SUN LIGHTS

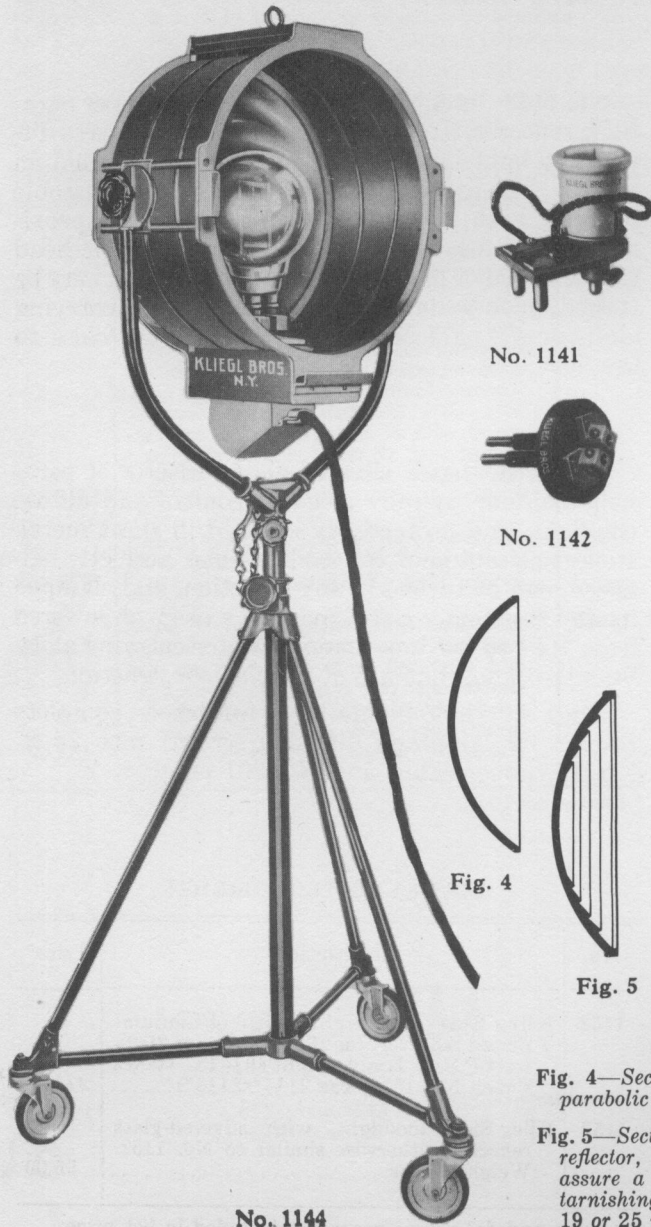
LONG BEAM, HIGH INTENSITY floodlights for projecting a strong, well-defined, evenly diffused beam of light a considerable distance—covering a restricted area; used especially for localized lighting of deep sets, producing sunlight effects, spotting-out, modelling, and for accentuating main points of interest; made in sizes to accommodate 2000-, 5000-, and 10,000-watt lamps.

Floodlight consists of a cylindrical lamp housing containing a receptacle and reflecting mirror, adjustably mounted on a telescopic standard; set on a base fitted with ball-bearing rubber-tired casters. Slide grooves on the front permit the use of a diffusing screen.

Receptacle for the lamp is mounted on a traveling base, controlled by a screw lever at the rear of the housing. It moves along the reflector axis, which allows focusing and regulating the beam spread from eight to approximately thirty degrees.

A mirrored glass reflector, mounted in the rear of the housing, back of the lamp, is furnished as standard equipment—but they can be supplied with a rhodium G R C metal reflector in place of the glass reflector, at the same price, if so specified.

The light beam can be projected in any direction; raised or lowered from 5' 9" to 8' 5", or demounted for carrying aloft. Hand clamps hold the projector securely in any set position.



KLIEG-SUN LIGHTS

No.	Description	Price †
1144	Klieg-Sun With 19" reflector; for 2000-watt G48 lamp only; with 25 ft. No. 12 rubber cable and No. 301½ plug (takes screen No. 1147, size 23"x23"). Weight 79 lbs.....	\$150.00*
1144A	With 19" reflector; for 5000-watt G64 lamp; with 25 ft. No. 6 cable and No. 301 plug; otherwise same as No. 1144. Weight 84 lbs.....	160.50*
1145	With 25" reflector; for 5000-watt G64 lamp only; with 25 ft. No. 6 cable and No. 301 plug (takes screen No. 1148, size 26⅝"x26⅝"), otherwise same as No. 1144. Weight 158 lbs....	318.00*
1145A	With 25" reflector; for 10,000-watt G96 lamp; with 25 ft. No. 2 cable and No. 389 plug; with hinged-frame diffusing screen. Weight 160 lbs.....	328.00
1146	With 36" reflector; for 10,000-watt G96 lamp; otherwise same as No. 1145A. Weight 180 lbs.....	550.00
	Lamp Adapters	
1141	For 2000-watt lamp to fit 5000-watt receptacle; for use with Klieg-Suns Nos. 1144A and 1145. Weight 1¼ lbs.	8.00
1142	For 5000-watt lamp to fit 10,000-watt receptacle; for use with Klieg-Suns Nos. 1145A and 1146. Weight 1½ lbs.	8.00

† Lamps not included in list price.

* Diffusing screens additional, see separate listing.

NOTE: Specify on order, kind of reflector desired—mirrored-glass or rhodium GRC metal.

Fig. 4—Sectional view of heat-resisting silvered mirrored-glass parabolic reflector, 19 or 25 inches in diameter.

Fig. 5—Sectional view of rhodium GRC metal first surface mirror reflector, with stepped concentric reflecting bands or rings to assure a uniformly illuminated field. A permanent, non-tarnishing, heat-resisting, highly polished reflecting surface, 19 or 25 inches in diameter.

Klieg SIDE-FLOODLIGHTS

HIGH INTENSITY VARIABLE-RANGE floodlights giving evenly-diffused brilliant light for localized general illumination; projecting the beam usually in a horizontal direction or at a slight angle above or below the horizontal; used as a side lamp for lighting of deep studio-sets and close-up photography; made to accommodate 1000-, 1500- or 2000-watt lamps.

Consist of a deep parabolic reflector 19½" in diameter, fitted with a mogul-screw-base receptacle, flexibly mounted on a telescopic pedestal stand with ball-bearing rubber-tired casters. Lamp receptacles and toggle switch are encased in an aluminum housing mounted back of the reflector.

No. 1152—is equipped with the spun-copper parabolic reflector, having concentric corrugations to diffuse the light, and its reflecting surface chromium plated. The reflector is supported by an adjustable bracket, with an angular adjustment of approximately 25° either side of the horizontal. The head can be raised or lowered from 4' 11" to 7' 7"; may be turned in any direction, demounted for carrying aloft, or set on a short pivot on the base close to the floor.

No. 1153—has a silvered-glass reflector of parabolic contour, spirally rifled to control and diffuse the light, and protectively encased in sheet metal. Reflecting unit is supported in a yoke, perfectly balanced, can be turned in any direction, and clamped in any position. Head may be raised or lowered from 4' 8" to 6' 8", or demounted for carrying aloft. Standard and yoke are of tubular construction.

Klieg Side-Floodlights are furnished complete (except for lamp and diffusing screen) with 25 ft. No. 12 rubber cable, and No. 301 plug.



No. 1152

No. 1153

KLIEG SIDE-FLOODLIGHTS

No.	Description	Price*
1152	Klieg Side-Floodlight, with chromium-plated reflector; for 1000-, 1500-, or 2000-watt P.S. 52 lamp; weight 49½ lbs. (takes screen No. 1072, size 21½"x21½").....	\$74.00
1153	Klieg Side-Floodlight, with silvered-glass reflector; otherwise similar to No. 1152. Weight 84 lbs.....	95.00

* Lamps and diffusing screens not included in list price.

Klieg TWIN and DOUBLE-TWIN FLOODLIGHTS

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WIDE-SPREAD HIGH-INTENSITY floodlights for general illumination, projecting an evenly-diffused light over a large area; used for lighting foregrounds, close-ups; and general lighting of studio sets; made in two sizes, to accommodate two or four 1000- or 1500-watt lamps.

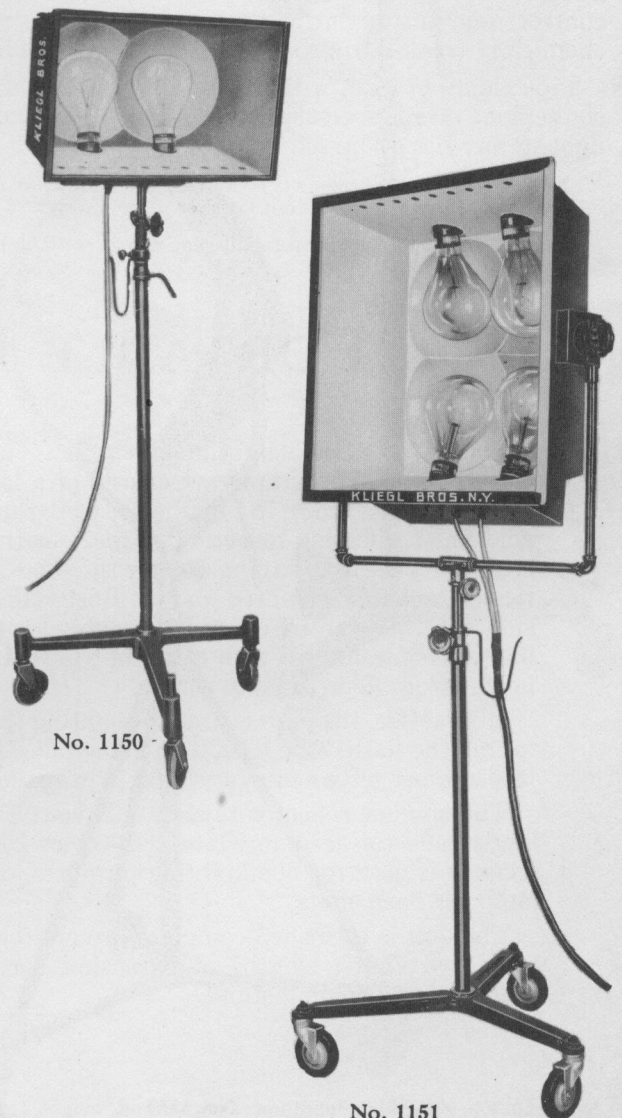
Consist of a box-reflector fitted with screw base receptacles; adjustably mounted on a telescopic stand, set on a base equipped with ball-bearing rubber-tired casters.

Reflectors are of spun aluminum, set in a deep open-front sheet-metal box. The reflector contour is parabolic, giving directional control of the light, and its reflecting surface has been chemically treated to properly diffuse the light. The receptacles are placed well toward the rear, with the lamps close to the reflector.

The inside surfaces of the box casing are painted a permanent white to insure maximum reflection. Exterior surfaces are finished in black, and all fittings are of brass. Provisions have been made for ample ventilation—and slide grooves on the front permit the use of a diffusing screen.

Special bracket mounting allows angular variations in a vertical plane, and telescopic pedestal permits head to be raised or lowered from 5' 3" to 7' 11", turned in any direction, or demounted, and set on a short pivot on the base.

They are furnished complete (except for lamps and diffusing screen) with pedestal stand, enclosed switches, cable, and plug.

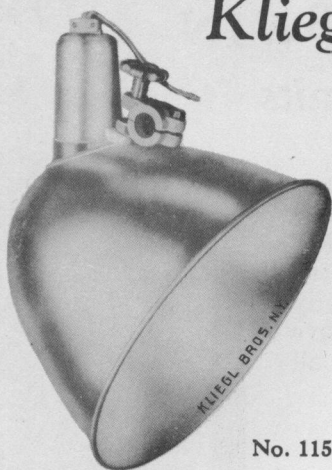


KLIEG TWIN AND DOUBLE-TWIN FLOODLIGHTS

No.	Description	Price*
1150	Klieg Twin Floodlight, for two 1000- or 1500-watt P.S. 52 lamps; with 25 ft. No. 12 rubber cable and No. 301 plug (takes screen No. 1149, size 23 $\frac{3}{4}$ "x16 $\frac{1}{8}$ "). Weight 58 lbs.....	\$50.00
1151	Klieg Double-Twin Floodlight, for four 1000- or 1500-watt P.S. 52 lamps; with 25 ft. No. 6 stage cable and No. 301 plug (takes screen No. 1073, size 27 $\frac{1}{2}$ "x26"); otherwise same as No. 1150. Weight 73 lbs.....	95.00

* Lamps and diffusing screens not included in list price.

Klieg SUSPENSION TYPE FLOODLIGHT



No. 1155

HIGH-CANDLE-POWER floodlight for general illumination. Gives an evenly-diffused wide spread of light; projected downward at a variable angle, usually from thirty to sixty degrees below the horizontal; generally used as an overhead unit for lighting backgrounds, and rear areas of studio sets. Accommodates a 1000- or 1500-watt P. S. 52 lamp.

Consists of a deep parabolically-curved spun-aluminum reflector with front opening 18" in diameter. A mogul-screw-base receptacle is mounted in an aluminum housing that projects from the top of the reflector—air passages allow for ventilation. Center of the lamp filament coincides with the focal point of the reflector to give proper light control; and inside surfaces of the aluminum reflector have been chemically treated to produce a diffusion of the light.

Pipe clamp bracket with swivel joint, attached to the yoke affords convenient means for suspension of the unit, and for projecting the light in any direction.

No. 1155 Klieg suspension type floodlight with bracket for one 1000- or 1500-watt P. S. 52 lamp (without lamp or plug). Weight 6½ lbs. PRICE \$22.00

No. 1075 Circular detachable diffusing screen with clamp screws; for Klieg Floodlight No. 1155.....PRICE \$2.50

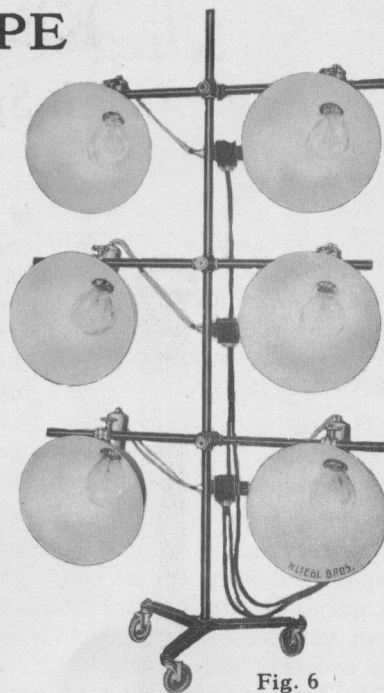


Fig. 6

Fig. 6—Illustrating how several No. 1155 Klieg suspension type floodlights may be mounted on a special portable stand for general illumination.

No. 1156 Floor stand only, with pipe arms and upright, for 6 to 12 No. 1155 floodlight units.....PRICE \$36.00

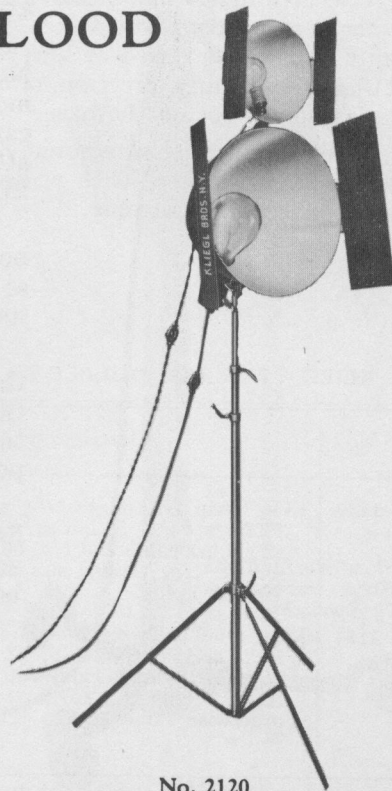
Klieg PORTABLE FLASH-FLOOD

SPECIAL PORTABLE lighting unit which is used for floodlighting or flashlight photography. Consists of a large spun aluminum reflector (No. 1155) 18" diameter, of parabolic curvature, and acid-finish diffusing reflecting surface—with a small 11" diameter pilot reflector, having exactly the same lighting characteristics, detachably mounted above. Both reflectors are fitted with side flaps. The entire unit is adjustably supported on a collapsible telescopic stand—with range of from 4 to 9 feet variation in height from floor to lamp center.

In practice, the pilot is used for lighting the set preparatory to taking the flash—the flash bulb being placed in the larger reflector, and set off when everything is in readiness.

The smaller reflector takes a 100-watt P. 25 lamp; and the larger reflector accommodates a 1000- or 1500-watt P. S. lamp, when it is used for floodlighting purposes, or No. 75 photoflash lamp for flash shots.

The unit is furnished complete (except for lamps) with reflectors, two 25 ft. lengths of extension cord with service line switches, and folding stand.



No. 2120

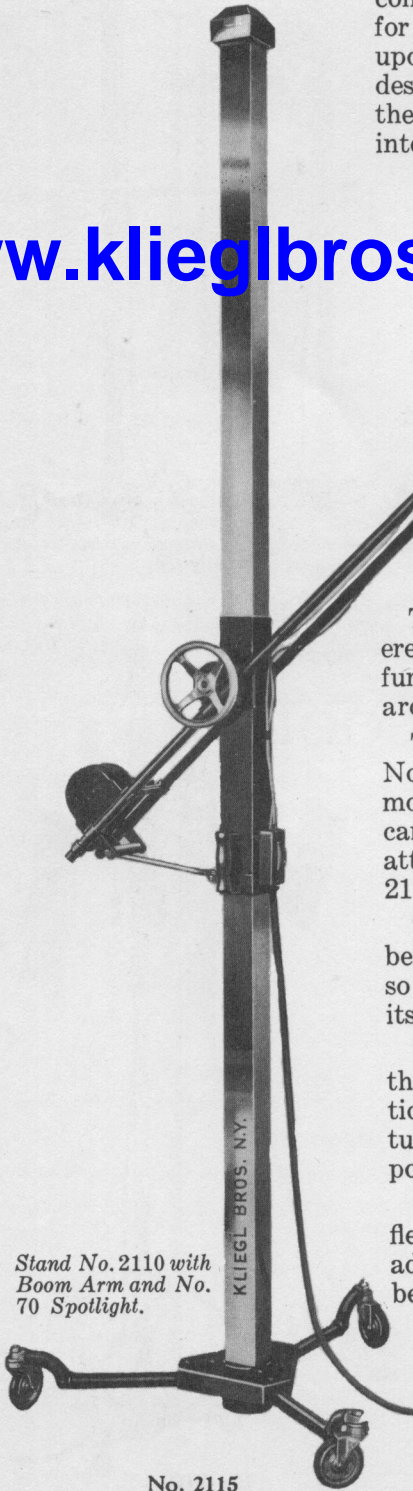
No. 2120 Klieg portable floodlight; as described, weight 21 lbs. PRICE \$75.00

Klieg MOBILE STANDS

with Spot and Flood Lighting Units

THESE SPECIALLY DESIGNED portable floor stands of unusual range and flexibility, offer the utmost convenience and ease of adjustment, and are ideal for studio use. They permit the light to be directed upon the set from every conceivable angle or any desired position from a considerable height above the subject to a position close to the floor and all intermediate positions.

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Stand No. 2110 with
Boom Arm and No.
70 Spotlight.

No. 2115

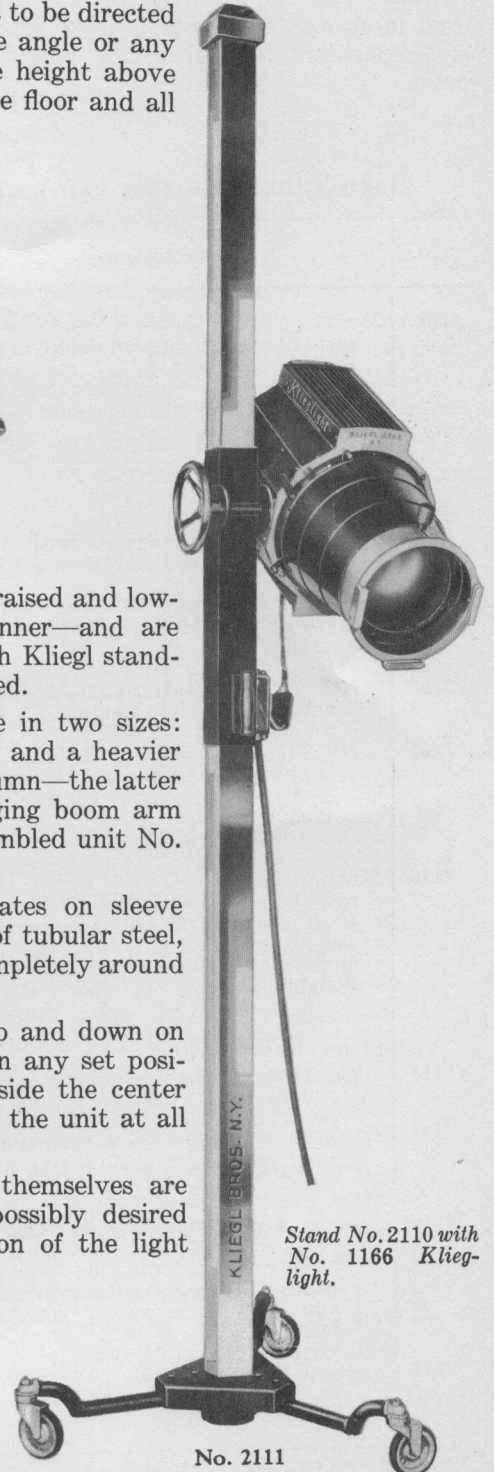
They can be turned and twisted, raised and lowered, easily, in every possible manner—and are furnished separately or supplied with Klieg standard spotlights or floodlights, as listed.

The vertical stands are available in two sizes: No. 2100 with a 2" square column; and a heavier model No. 2110 with a 3" square column—the latter can also be furnished with a swinging boom arm attached, as in the case of the assembled unit No. 2115 pictured.

The upright square column rotates on sleeve bearings around a central member of tubular steel, so that the column can be turned completely around its vertical axis.

The supporting member slides up and down on the vertical column, and remains in any set position—because a counter weight inside the center tube counterbalances the weight of the unit at all positions.

In addition, the lighting units themselves are flexibly mounted, permitting all possibly desired adjustments in position or direction of the light beam.



Stand No. 2110 with
No. 1166 Klieg-
light.

No. 2111

The base is weighted, and has underslung ball-bearing rubber-tired casters so that they can be easily moved about without tipping.

The boom arm, when furnished, is pivoted on the sliding member; and is automatically counter-balanced by tension springs, so that equilibrium is always maintained. Its angle of elevation can be changed at will.

These stands anticipate all conditions encountered in studio work—are a great convenience, and save considerable time in arranging the lighting of sets.

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KLIEG MOBILE STANDS AND LIGHT UNITS

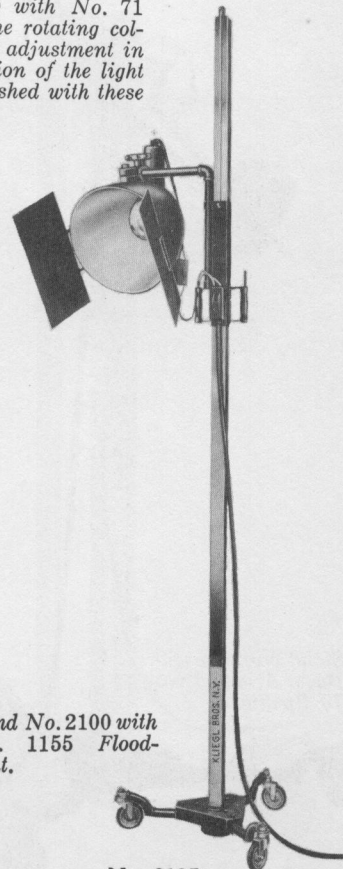
No.	Description	Price*
2100	Mobile counter-balanced studio stand; with 2" sq. chromium-plated upright, 10 ft. high; with pulley and counter weight; mounted on heavy base, with underslung ball-bearing roller casters. Weight 100 lbs.....	\$90.00
Stand No. 2100 with:		
2101	No. 43A, 500-watt, soft-edge spotlight unit, heavy-duty tumbler switch, and 25 ft. rubber cable. Weight 105 lbs....	110.00
2102	No. 70, 1000-watt spotlight; enclosed switch, and 25 ft. rubber cable. Weight 114 lbs.....	130.00
2103	No. 71, 2000-watt spotlight; switch, and cable. Weight 120 lbs.....	135.00
2105	No. 1155 floodlight, for 1500-watt P.S. lamp; with aluminum side flaps; enclosed switch, and 25 ft. cable. Weight 105 lbs.....	128.00
2110	Mobile counter-balanced studio stand; with 3" sq. chromium-plated upright, 10 ft. high; with pulley and counter weight; mounted on heavy base, with underslung ball-bearing roller casters. Weight 160 lbs.....	110.00
Stand No. 2110 with:		
2111	No. 1166 Klieglight spot-flood unit; for 2000-watt T 30 lamp; with 4 independently operated framing shutters, an iris shutter; heavy-duty enclosed tumbler switch; and 25 ft. rubber cable. Weight 212 lbs.....	245.00
2115	Boom Arm, extending 4 ft.; and with No. 70, 1000-watt spotlight; with asbestos leads, pin-plug connector, heavy-duty enclosed tumbler switch, and 25 ft. rubber cable. Weight 205 lbs.....	186.00
2116	Boom Arm and No. 71, 2000-watt spotlight; otherwise same as No. 2115. Weight 211 lbs.....	195.00

* Lamps not included in list price.



No. 2103

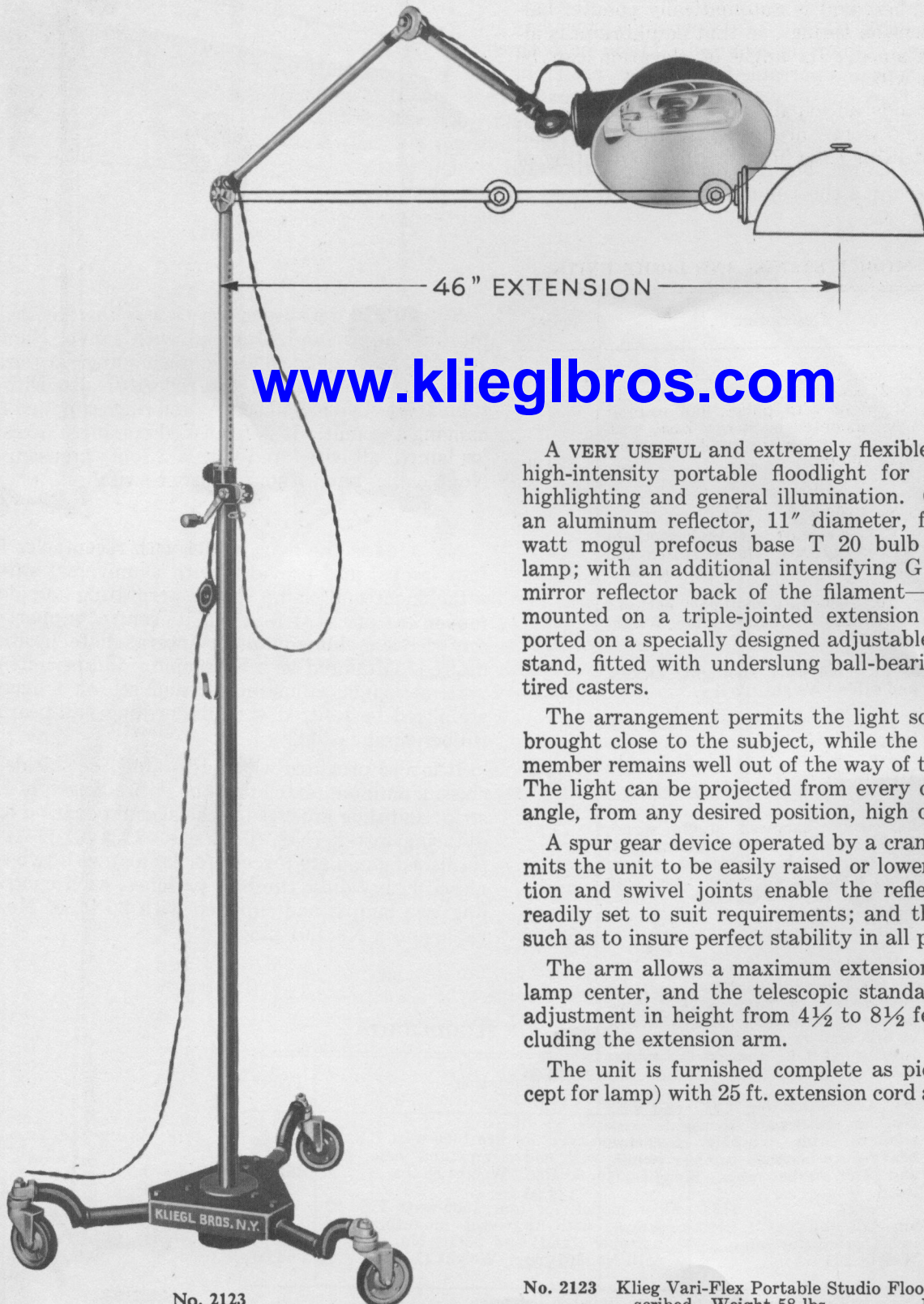
Above, Stand No. 2100 with No. 71 Spotlight—illustrating the rotating column, and wide range of adjustment in height and relative position of the light unit—so easily accomplished with these mobile stands.



Stand No. 2100 with No. 1155 Floodlight.

No. 2105

Klieg VARI-FLEX PORTABLE FLOOD



www.klieglbros.com

A VERY USEFUL and extremely flexible, compact, high-intensity portable floodlight for close-range highlighting and general illumination. Consists of an aluminum reflector, 11" diameter, for a 1000-watt mogul prefocus base T 20 bulb projection lamp; with an additional intensifying G R C metal mirror reflector back of the filament—adjustably mounted on a triple-jointed extension arm, supported on a specially designed adjustable telescopic stand, fitted with underslung ball-bearing rubber-tired casters.

The arrangement permits the light source to be brought close to the subject, while the supporting member remains well out of the way of the camera. The light can be projected from every conceivable angle, from any desired position, high or low.

A spur gear device operated by a crank arm permits the unit to be easily raised or lowered. Friction and swivel joints enable the reflector to be readily set to suit requirements; and the stand is such as to insure perfect stability in all positions.

The arm allows a maximum extension of 48" to lamp center, and the telescopic standard permits adjustment in height from 4½ to 8½ feet, not including the extension arm.

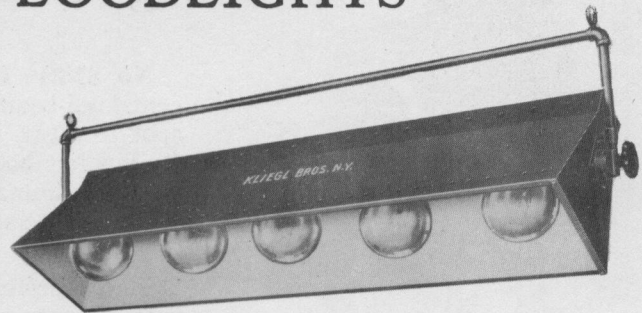
The unit is furnished complete as pictured (except for lamp) with 25 ft. extension cord and switch.

No. 2123

No. 2123 Klieg Vari-Flex Portable Studio Floodlight, as described. Weight 58 lbs.....PRICE \$85.00

Klieg STRIP FLOODLIGHTS

FOR GENERAL ILLUMINATION where a considerable amount of light is required. Made in both suspension type and portable floor models, as herein described. They consist essentially of an elongated parabolic - curved chemically - treated sheet - aluminum reflector, with provisions for a row of 1000-watt P. S. 52 lamps. The receptacles and wiring are fully enclosed in a sheet-metal casing.



No. 1162

No. 1162 is the suspension type with receptacles for five lamps; and provided with swivel clamps attached to the end plates, allowing angular variations in the position of the reflector; also with a tubular-steel yoke and suspension rings supplied for hanging the unit. It is furnished complete (except for lamps) all wired and with a 3 foot extension of No. 6 cable, but without plugs or switches.



No. 1154

No. 1154 is the floor model with receptacles for four lamps; and provided with a universal swivel attachment and clamp screws permitting complete movement of the strip about its central support to any vertical, horizontal, or intermediate position desired. Mounted on a telescopic stand permitting vertical height adjustments, and set on a heavy stabilized base fitted with underslung ball-bearing rubber-tired casters.

It is also provided with adjustable side shields of sheet aluminum, extending the entire length of the strip; and slide grooves for the accommodation of a diffusing screen (No. 1074, size 48" x 12"). It is furnished complete (except for lamps) with two enclosed heavy-duty tumbler switches, each controlling two lamps; and supplied with 25 ft. of No. 8 cable and a No. 301 plug.

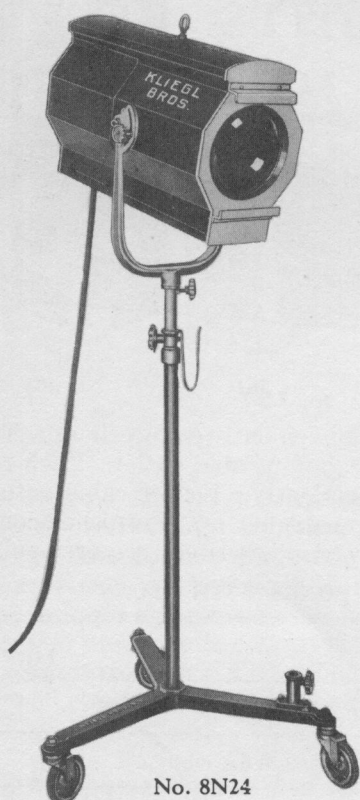
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KLIEG STRIP FLOODLIGHTS

No.	Description	Price*
1162	Suspension type; for five 1000-watt P.S. 52 lamps; with end clamps and yoke; and 3 ft. No. 6 cable. Weight 59 lbs.....	\$52.50
1154	Floor model; for four 1000-watt P.S. 52 lamps; with universal mounting and portable stand; and 25 ft. No. 8 cable with No. 301 plug. Weight 114 lbs.....	68.00

*Lamps not included in list price.

Klieg SPOTLIGHTS



No. 8N24

No. 8N24—HIGH-INTENSITY LONG-RANGE spotlight. Projects a concentrated beam of light any distance up to 100 ft., gives from a 4 ft. spot to 30 ft. spread at average working distances. Often used in studios for: back lighting—to give depth to the picture; cross lighting—to eliminate facial shadows; follow-up floodlighting, modelling, and for special lighting effects. Accommodates a 2000-watt G 48 lamp.

Mogul prefocus base receptacle is mounted on a sliding carriage, with rod extending through rear of housing for focusing. Eight inch condensing lens is supported in a special frame designed to allow unrestricted expansion. A No. 931 rhodium G R C metal reflector is mounted back of the lamp to intensify the light beam. Slide grooves are provided on front for holding an iris shutter, or other devices used in obtaining special lighting effects.

Hood is flexibly mounted on a telescopic-pedestal stand, fitted with ball-bearing rubber-tired casters. Spotlight is furnished complete (except for lamp) with asbestos leads, enclosed switch, on back of hood, and 25 ft. of rubber-covered cable.

No. 8N24 Klieg Spotlight, as described, for 2000-watt G48 mogul prefocus base, concentrated filament lamp. Weight 63 lbs. PRICE \$70.00

www.klieglbros.com

No. 2276—SPECIAL MODELLING spotlight, equipped with an extra objective lens system; often used in studios for creating deep sharp shadows. Especially useful for obtaining emphasis on small important objects of a general setting.

Being equipped with four independently adjustable framing shutters, and an iris shutter—the size and shape of the light beam can be regulated to any conceivable pattern—the beam diameter from a pin-point to full lens opening; and the beam shape round, square, rectangular, and fantastic designs—with an evenly illuminated field. It takes a 500-watt lamp and projects a relatively narrow high-intensity beam of light, any distance up to 20 feet.

It is provided with a medium prefocus base receptacle, adjustable for focusing; a rhodium G R C metal reflector (No. 927R) mounted back of the lamp; and a 4½" condensing lens—also extra lenses in a telescopic holder, and shutters above mentioned.

It is flexibly mounted on a telescopic stand, with rubber-tired roller casters—and furnished complete (except for lamp) with snap switch, 25 ft. extension cord and attachment plug.



Fig. 7

Fig. 7—Close-up of Spotlight No. 2276, showing detachable lens system and special holder with iris shutter and four independently adjustable framing shutters.

No. 2276

No. 2276 Klieg Spotlight, as described, for 500-watt T 20 medium prefocus base lamp. Weight 39 lbs.

PRICE \$65.00

PLUGGING BOXES and PLUGS



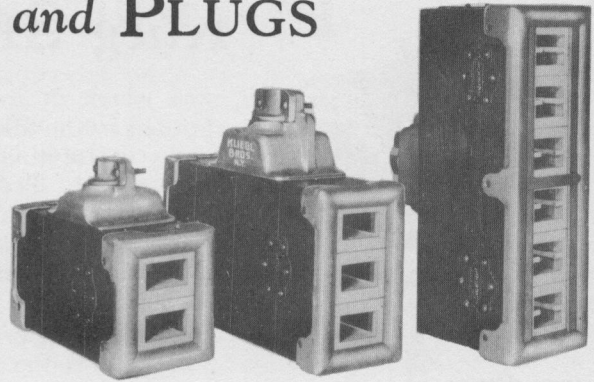
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No. 301



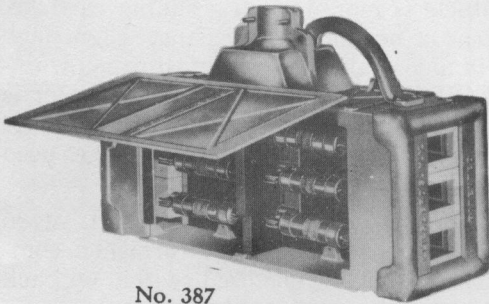
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No. 403



No. 387



No. 392

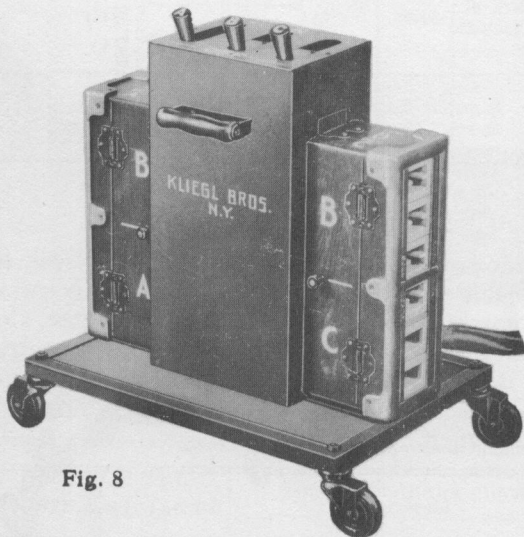


Fig. 8

Fig. 8—Specially constructed plugging unit—No. 403 plugging box, with enclosed line switches, the assembly portably mounted on a base with rubber-tired roller casters.

FOR QUICKLY and conveniently connecting several lighting units to a single portable outlet. Each receptacle fused independently. Feeder cable enters through a special grip-cable-clamp. Furnished complete with plugs. Meet Underwriters' requirements.

PLUGGING BOXES WITH PLUGS

No.	Number of Pockets	Rating—Outlet		Weight Lbs.	Price with Plugs
		Amperes	Volts		

2-Wire Main; 2-Wire Outlets

400*	6	10 to 30	250	10 1/4	\$30.00
401*	12	10 to 30	250	20 1/2	58.00
390	2	10 to 30	250	9 1/2	14.00
391	4	10 to 30	250	14	27.00
392	6	10 to 30	250	19	40.00
393	8	10 to 30	250	24	54.00
396	4	35 to 60	250	20	27.00
397	6	35 to 60	250	25	40.00

3-Wire 125-250 Volt, Main; 2-Wire Outlets

402*	6	10 to 30	125	10 1/4	30.00
403*	12	10 to 30	125	20 1/2	58.00
381	4	10 to 50	125	17	29.00
382	6	10 to 50	125	23	43.50
383	8	10 to 50	125	31	58.00
398	4	35 to 60	125	21	29.00
399	6	35 to 60	125	27	42.00
387	6	75	125	31	63.00

Nos. 400, 401, 402, 403, 381, 382, and 383 are furnished with link fuses only, all others with cartridge fuses—unless otherwise ordered.

* Furnished with No. 301 1/2 Plugs; all others are furnished with No. 301 Plugs.

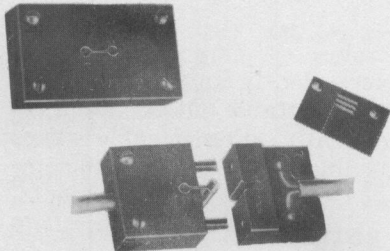
Portable plugging boxes for three-phase outlets, or for heavier current demands than those listed, are built to order.

PLUGS FOR PLUGGING BOXES

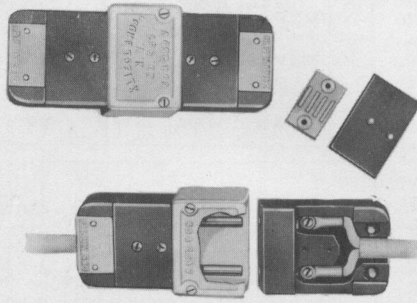
No.	Description	Price
301 1/2	30 ampere, 2-wire.....	\$1.25
301	50 ampere, 2-wire.....	2.00
389	100 ampere, 2-wire.....	7.50

PIN-PLUG CONNECTORS

PROVIDED with brass split pins which fit into brass sleeves. All live parts embedded in the fiber. Removable fiber plate gives access to terminals. Cable extends well into body of connector. Teeth on cover plate firmly grip outer insulation of cable, prevent insulation from unraveling, and relieve binding screw connections of all strain. Withstand severe usage.

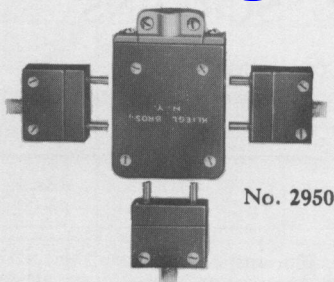


No. 1950

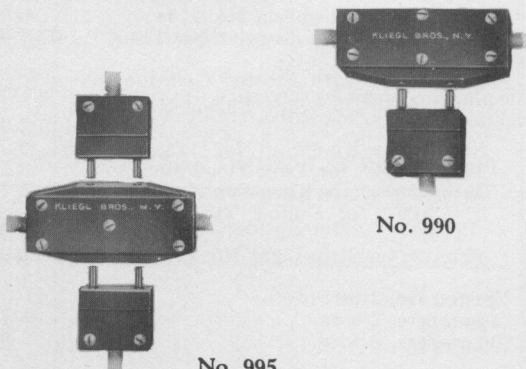


No. 957N

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No. 2950



No. 995

Two-Pole Connectors

LISTED BY UNDERWRITERS' LABORATORIES

Above 30-ampere capacity connectors are provided with lugs for wire ends; above 60-ampere capacity they have an aluminum collar where sections join, protecting the pins and providing additional strength.

No.	Am-peres	Volts	Cable No.	Style	Weight	Price
1950*	5	250	14	Rev.	4 oz.	\$1.10
1955*	15	250	12	Rev.	6 oz.	1.50
950	5	250	14	Rev.	4 oz.	1.10
955	15	250	12	Rev.	6 oz.	1.50
956	30	125	10	Rev.	10 oz.	2.40
957N	60	125	6	Non-Rev.	18 oz.	6.00
958N	100	250	2	Non-Rev.	2 1/2 lbs.	10.50
959N	200	250	000	Non-Rev.	6 lbs.	19.80

* With spring catch.

NOTE:—Reversible connectors can be furnished non-reversible at an additional cost of \$0.25 list. Connectors can also be furnished for connecting two single conductors to duplex cable, or for connecting two pairs of single conductors—also connectors with three or more poles can be supplied—details and prices on application.

Multiple Circuit Connectors

Provide three separate circuits from one feeder cable. Attached to end of cable; body has three pairs of brass sleeves inter-connected, which receive three separate 2-pole male end pin connectors, providing three 2-wire circuits.

No.	No. of Circuits	Amp.	Volts	For Cable No.		Weight	Price
				Main	Outlets		
2950	3	5	250	12	14	12 oz.	\$3.60
2955	3	15	250	8	14	1 1/4 lbs.	5.00

Branch-Off Connectors

Permit several circuits to be obtained from one feeder cable along its length, without making splices. Cable passes through full length of connector. Connections made with binding screws without cutting wire. Body made to receive Kliegl regular 2-pole 5-ampere male plug connectors. Made in single and double branch.

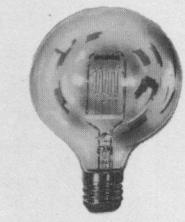
No.	Description	Amp.	Volts	Weight	Price
990	Single branch, with one plug . .	5	250	6 oz.	\$2.75
995	Double branch, with two plugs.	5	250	8 oz.	3.50

INCANDESCENT LAMPS

ALL STYLES of incandescent lamps, both concentrated filament and standard types, stocked in large quantities, and sold at regular lamp-contract prices.

CONCENTRATED-FILAMENT INCANDESCENT LAMPS

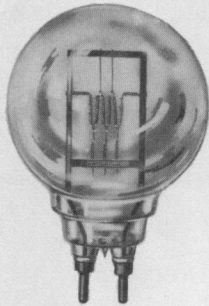
Watts	Volts	Bulb	Base	Filament	Light Center	Price
100	115	P-25 spot	Medium Screw	C-5	3"	\$1.00
250	115	G-30 spot	Medium Screw	C-5	3"	1.75
250	115	G-30 spot	Medium Prefocus	C-5	2 ³ / ₁₆ "	1.90
400	115	G-30 spot	Medium Screw	C-5	3"	3.00
400	115	G-30 spot	Medium Prefocus	C-5	2 ³ / ₁₆ "	3.15
500	115	G-40 flood	Mogul Screw	C-5	4 ¹ / ₄ "	3.25
500	115	T-20 proj.	Medium Prefocus	C-13	2 ³ / ₁₆ "	3.00
1000	115	T-20 proj.	Mogul Prefocus	C-13A	3 ¹ / ₁₆ "	6.50
1000	115	G-40 spot	Mg. Sc. Long Neck	C-5	5 ¹ / ₄ "	6.75
1000	115	T-24	Bi-Post	Bi-Plane	11.50
1500	115	G-40 spot	Mogul Screw	C-5	5 ¹ / ₄ "	9.00
1500	115	G-48 flood	Mogul Screw	C-5	5 ¹ / ₄ "	10.00
1500	115	T-24	Bi-Post	Bi-Plane	13.75
2000	115	G-48 spot	Mogul Screw	C-13	5 ¹ / ₄ "	13.50
2000	115	G-48 spot	Mogul Prefocus	C-13	3 ¹⁵ / ₁₆ "	13.90
2000	115	T-30	Bi-Post	Bi-Plane	15.25
5000	115	G-64	Bi-Post	C-13	6 ¹ / ₂ "	40.00
5000	115	T-40	Bi-Post	Bi-Plane	60.00
10000	115	G-96	Prong	C-13	12"*	100.00



2000-watt G48
Screw Base



2000-watt G48
Prefocus Base



5000-watt G64
Bi-post Base



1500-watt T24
Bi-post Base

* Exclusive of base prongs.

NOTE: T-24, T-30, and T-40 are all 200 hour life. They can also be furnished 25 hour life, at the same price—which give about 40 per cent more light.

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STANDARD TYPE INCANDESCENT LAMPS

Watts	Volts	Bulb	Base	Price
150	115	P.S.—25 clear	Med. Screw	\$0.50
200	115	P.S.—30 clear	Med. Screw	.70
300	115	P.S.—35 clear	Mogul Screw	1.15
500	115	P.S.—40 clear	Mogul Screw	1.75
750	115	P.S.—52 clear	Mogul Screw	3.75
1000	115	P.S.—52 clear	Mogul Screw	4.00
1500	115	P.S.—52 clear	Mogul Screw	5.75
2000	115	P.S.—52 clear	Mogul Screw	13.00

PHOTO FLASH BULBS

No.	Bulb	Base	Price
10	A-19	Medium Screw	\$0.15
20	A-23	Medium Screw	.25
75	P.S. 24	Medium Screw	.75

DIFFUSING SCREENS

FIT SLIDE GROOVES on Kliegl Studio Lights—used when thoroughly diffused illumination is desired.

No.	Description	Price
Metal Frames with Florentine Glass		
1056	15"x14 ¹ / ₂ "; for Twin Flood No. 1050	\$2.50
1147	23"x23"; for Kliegl-Sun No. 1144	6.00
1148	26 ⁵ / ₈ "x26 ⁵ / ₈ "; for Kliegl-Sun No. 1145	7.50
Metal Frames with Frosted Gelatine		
1072	21 ¹ / ₂ "x21 ¹ / ₂ "; for Side Floods Nos. 1152, 1153	3.00
1147A	23"x23"; for Kliegl-Sun No. 1144	3.00
1149	23 ³ / ₄ "x16 ¹ / ₈ "; for Twin Flood No. 1150	2.50
1148A	26 ⁵ / ₈ "x26 ⁵ / ₈ "; for Kliegl-Sun No. 1145	3.75
1073	27 ¹ / ₂ "x26"; for Double Twin Flood No. 1151	4.50
1074	48"x12"; for Strip Light No. 1154	3.00
Frosted Gelatine Sheets		
G1	20"x24" per sheet	.14
G80	24"x24" per sheet	.25



KLIEGL BROS

UNIVERSAL ELECTRIC STAGE LIGHTING CO., INC.

ESTABLISHED 1896

321 WEST 50th STREET
NEW YORK, N.Y.

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