



Spectacolo Project

Light Design Workshop- 2

Centre of Higher education in theatre studies

LIGHT PROJECTORS

April 22, 2024

The secrets of Theatre light projectors

PAR Cans (Parabolic Aluminized Reflector)

Fresnel Spotlight

Ellipsoidal Reflector Spotlight (ERS or Leko)

Profile Spotlights

Follow spots

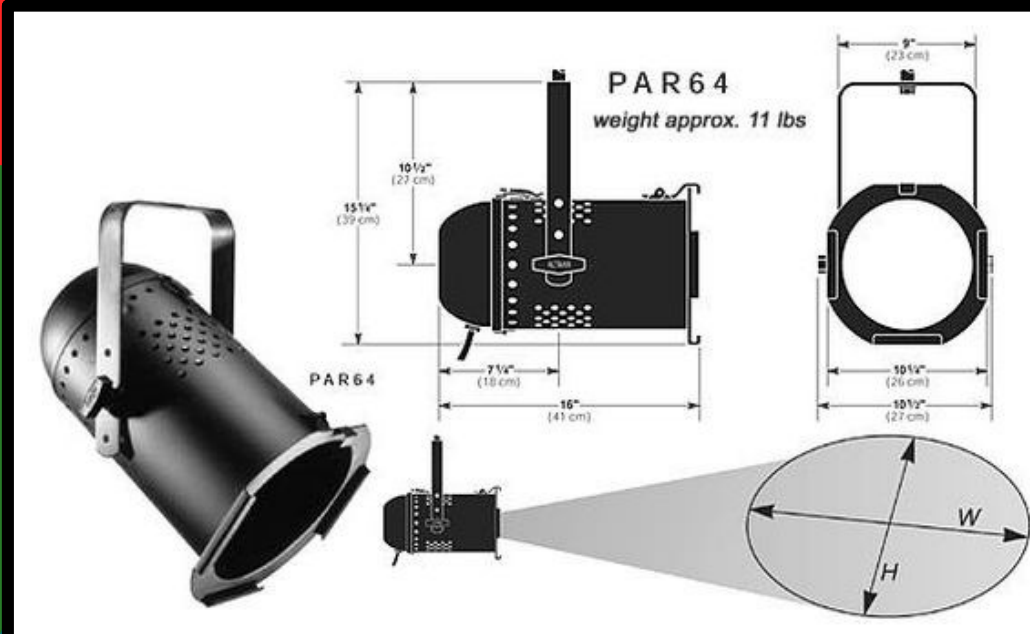
Gobo Projectors

LED Fixtures

Moving Head Fixtures



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PAR can lights
Parabolic
Aluminized
Reflector lights



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Popular lighting fixtures used in various applications including theater, concerts, architectural lighting, and more

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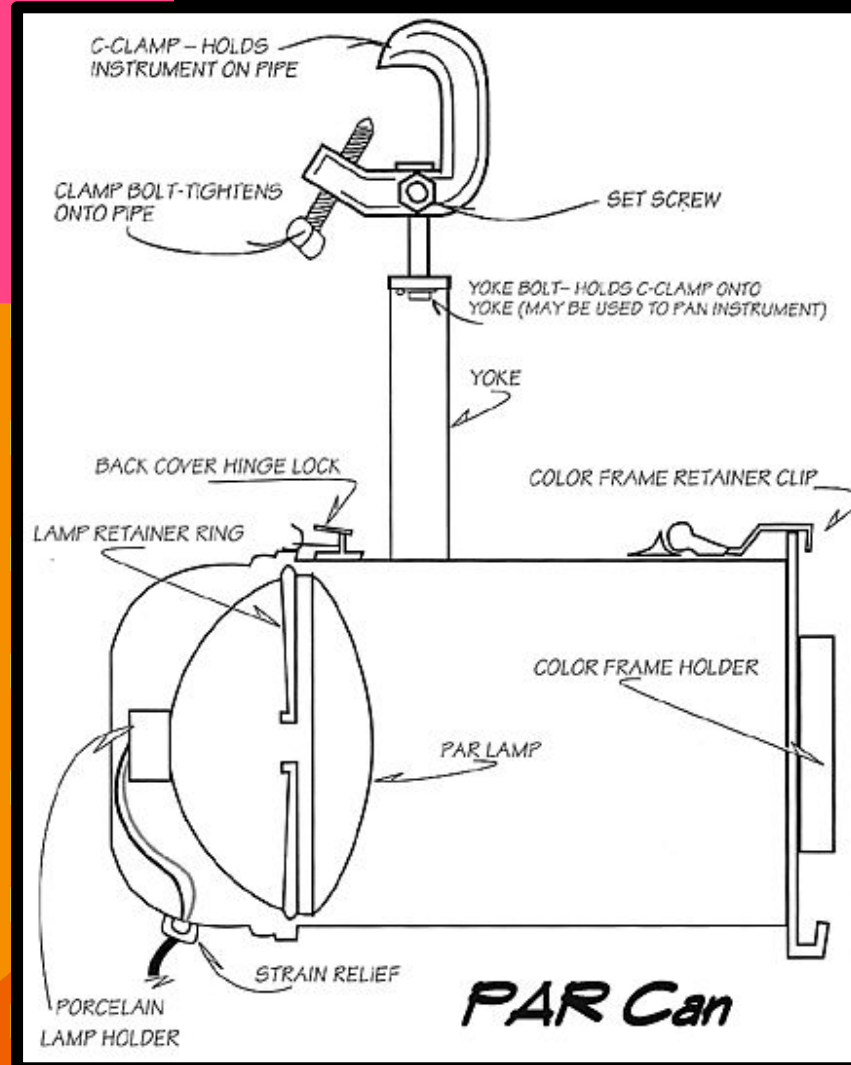
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PAR can lights

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PARCAN

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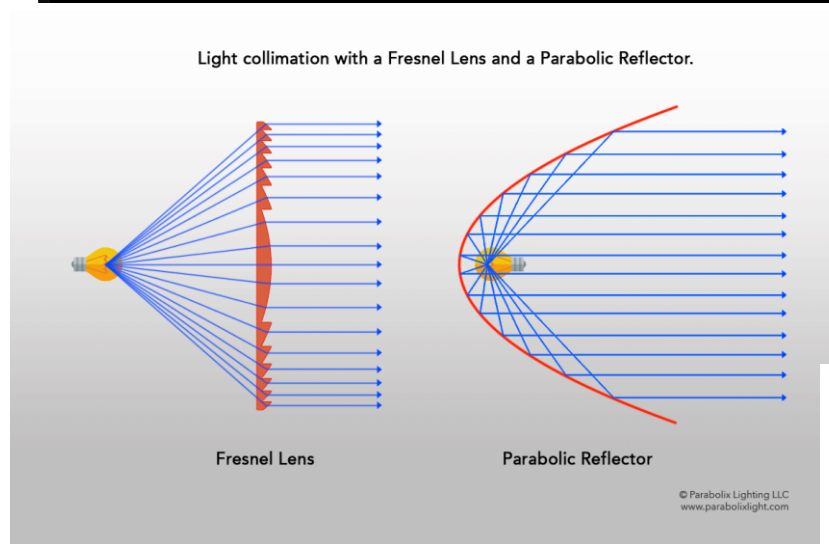


Fresnel lights

are a type of theatrical lighting fixture that uses a Fresnel lens to produce a soft-edged beam of light.

Fresnel lights are versatile and widely used in theater lighting due to their ability to produce a soft, controllable beam of light that is ideal for illuminating actors, scenery, and other elements on stage.

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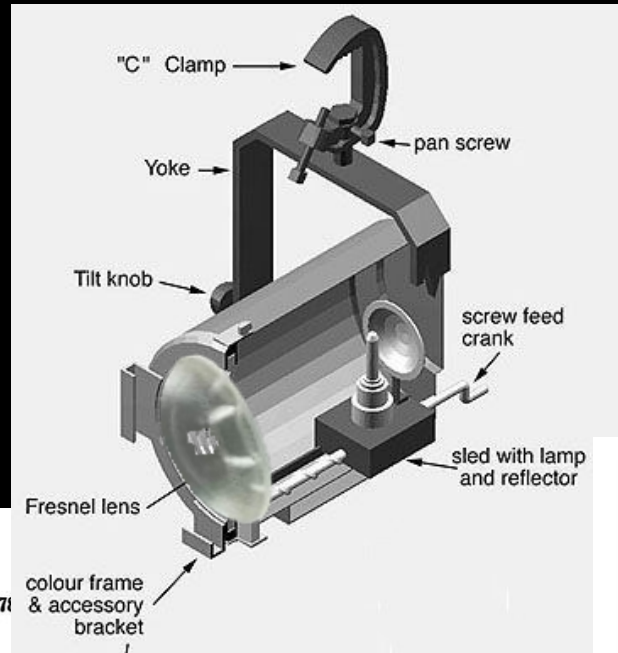
PC theater lights,

also known as PC (Pebble Convex) or Plano Convex lights, are a type of lighting fixture commonly used in theater, stage, and studio productions.

These lights consist of a plano-convex lens, which is a lens with one flat (plano) side and one convex side (curved outward).

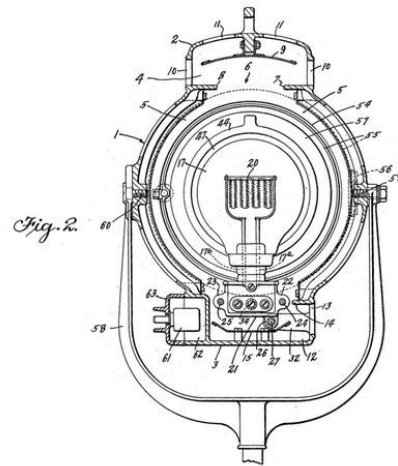


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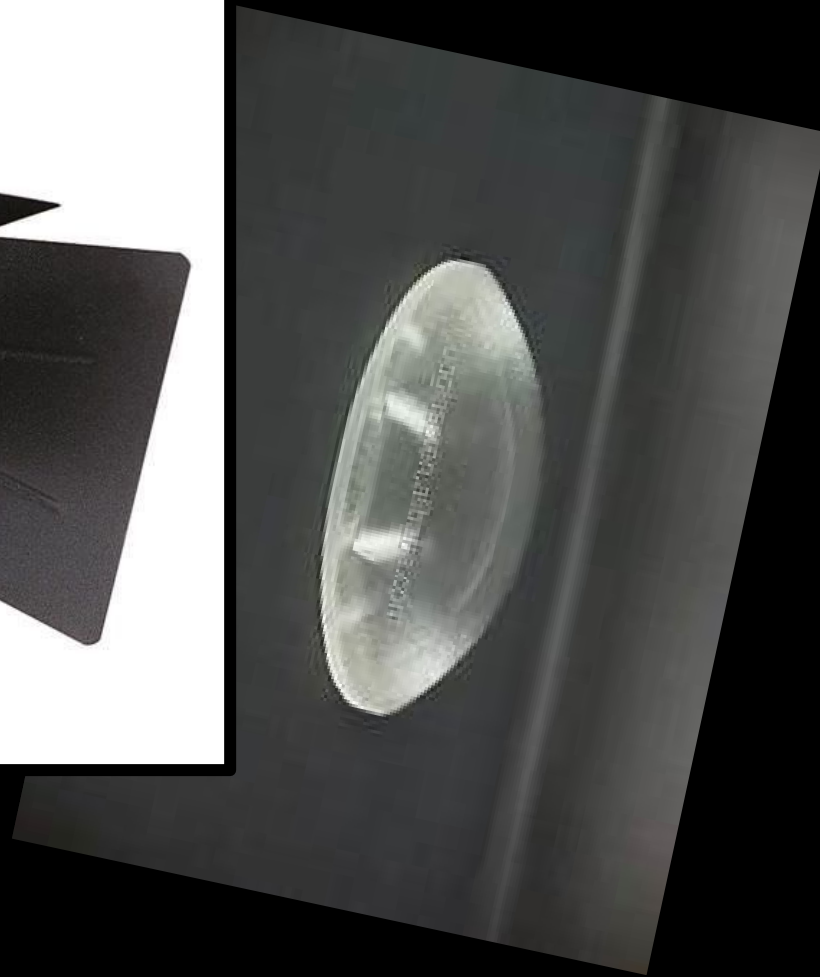
Patented Oct. 13, 1936 **2,057,271**
UNITED STATES PATENT OFFICE

SPOT LAMP
Elmer C. Richardson, Los Angeles, Calif., assignor
to Mole-Richardson, Inc., Los Angeles, Calif.,
a corporation of California



INVENTOR,
Elmer C. Richardson
BY *Lyon & Lyon* ATTORNEYS

The mechanism of a PC (Plano-Convex) light projector involves several components working together to control and project light effectively



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Frenel and PCs

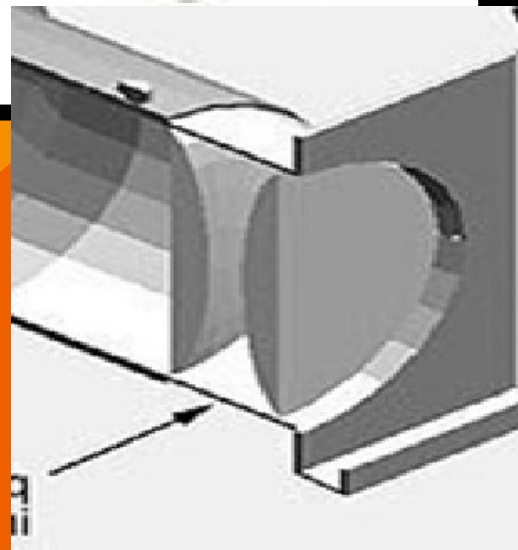
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Follow spot

is a specialized lighting instrument used in theater, concerts, and other live performances to highlight and follow specific performers or objects on stage.



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Ellipsoidal lights (**ERS**),

also known as

Ellipsoidal “

Reflector

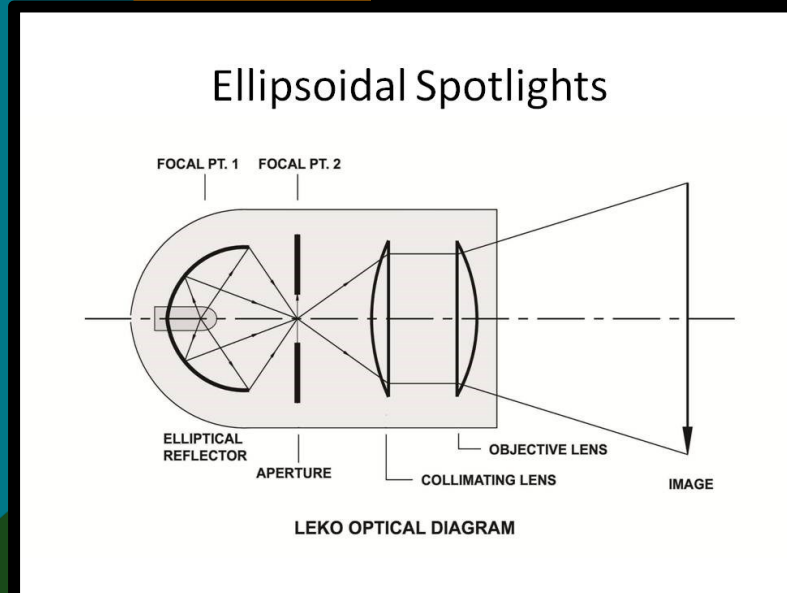
Spotlights

are versatile lighting instruments

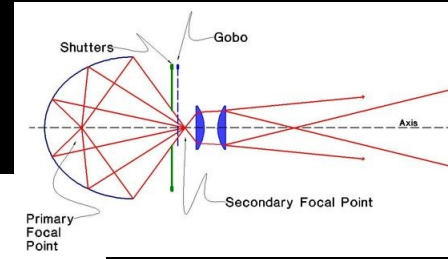
commonly used in theaters,

concert venues,

and other live performance spaces



Profile lights

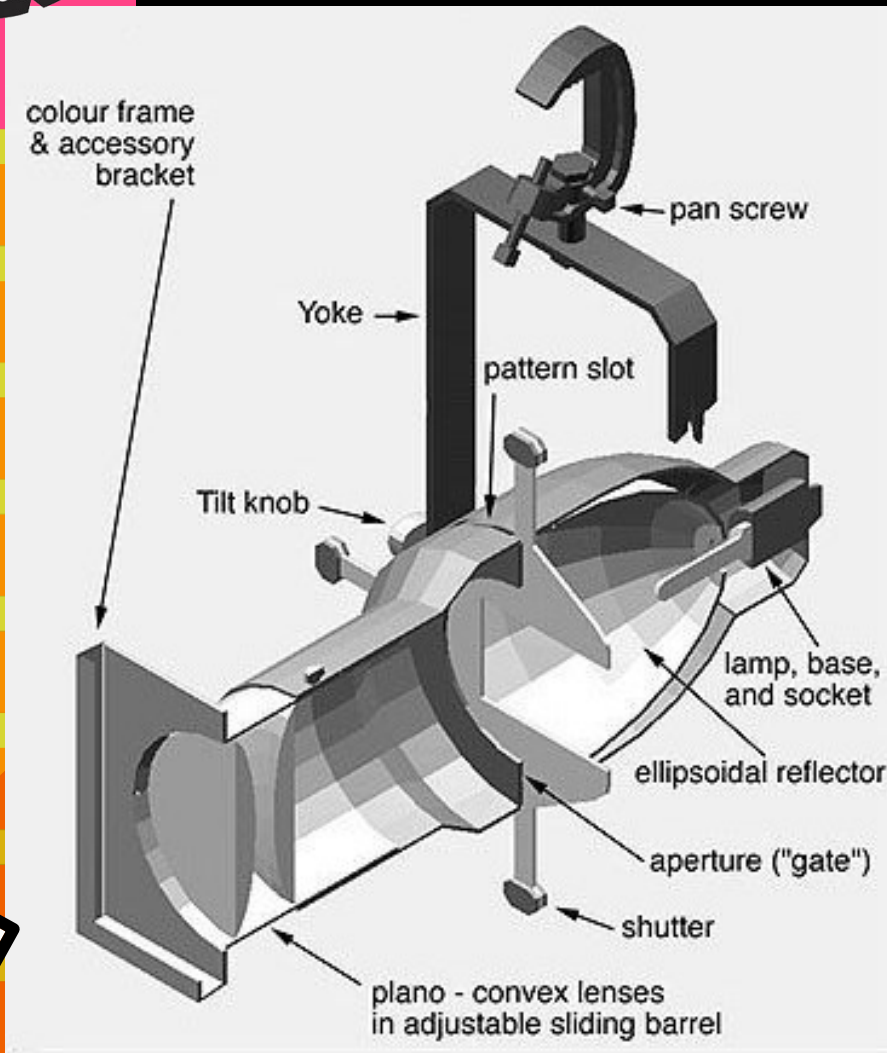


offer versatility, precision, and creative possibilities in theater lighting design, making them essential tools for lighting designers to achieve their artistic vision on stage



Profile lights

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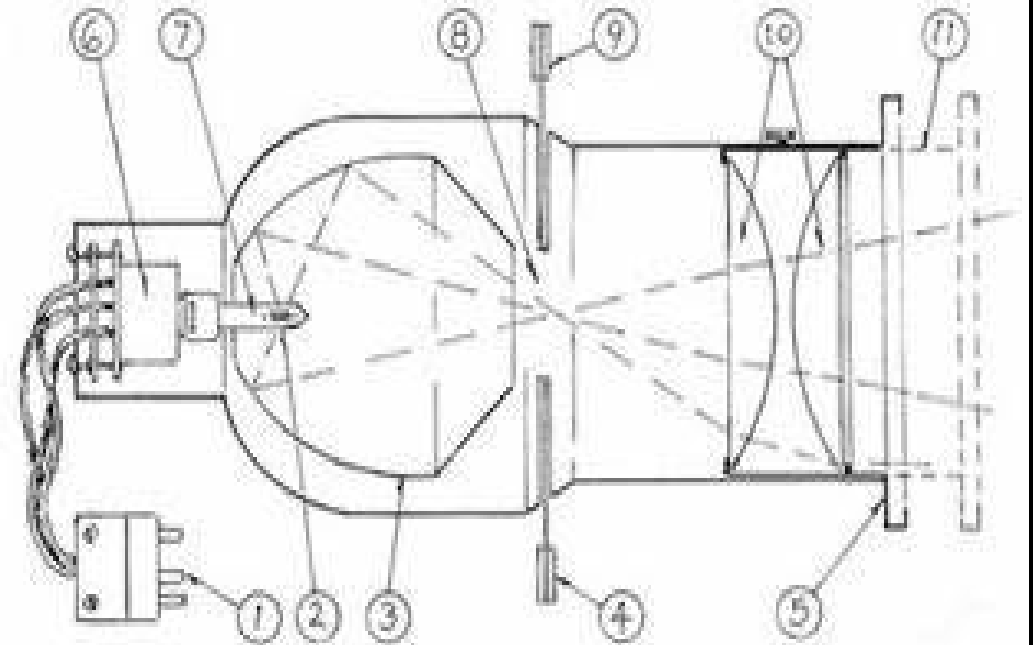
Profile lights

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FIGURE 16-5

Axial Mount Ellipsoidal Reflector Spotlight

(1) Three-wire pin connector. (2) Coiled-coil filament. (3) Ellipsoidal reflector. (4) Bottom shutter which shapes the top of the beam. (5) Color-frame holder. (6) Axially mounted socket. (7) Tungsten-halogen lamp. (8) The "gate" with typical reflected rays crossing at the conjugate focal point. (9) Top shutter. (10) Double plano-convex lenses. (11) The lens barrel in alternate positions.



Profile lights

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Iris and GOBO Holders





Profile lights

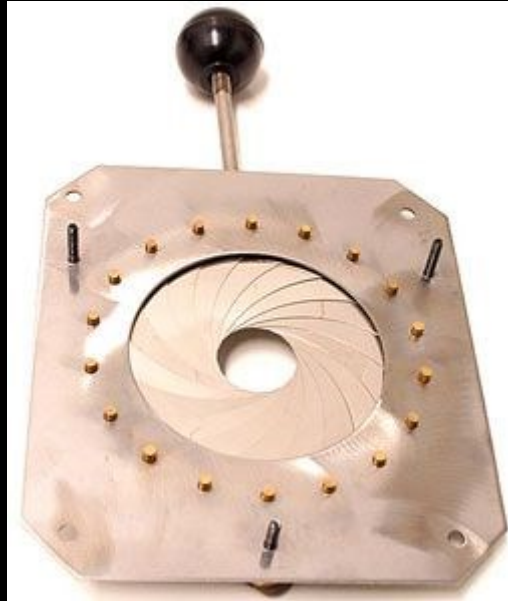


Profile lights

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Iris assembly

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