

C. E. NILSSON.
 LIGHT PROJECTING APPARATUS.
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965,401.

Patented July 26, 1910.

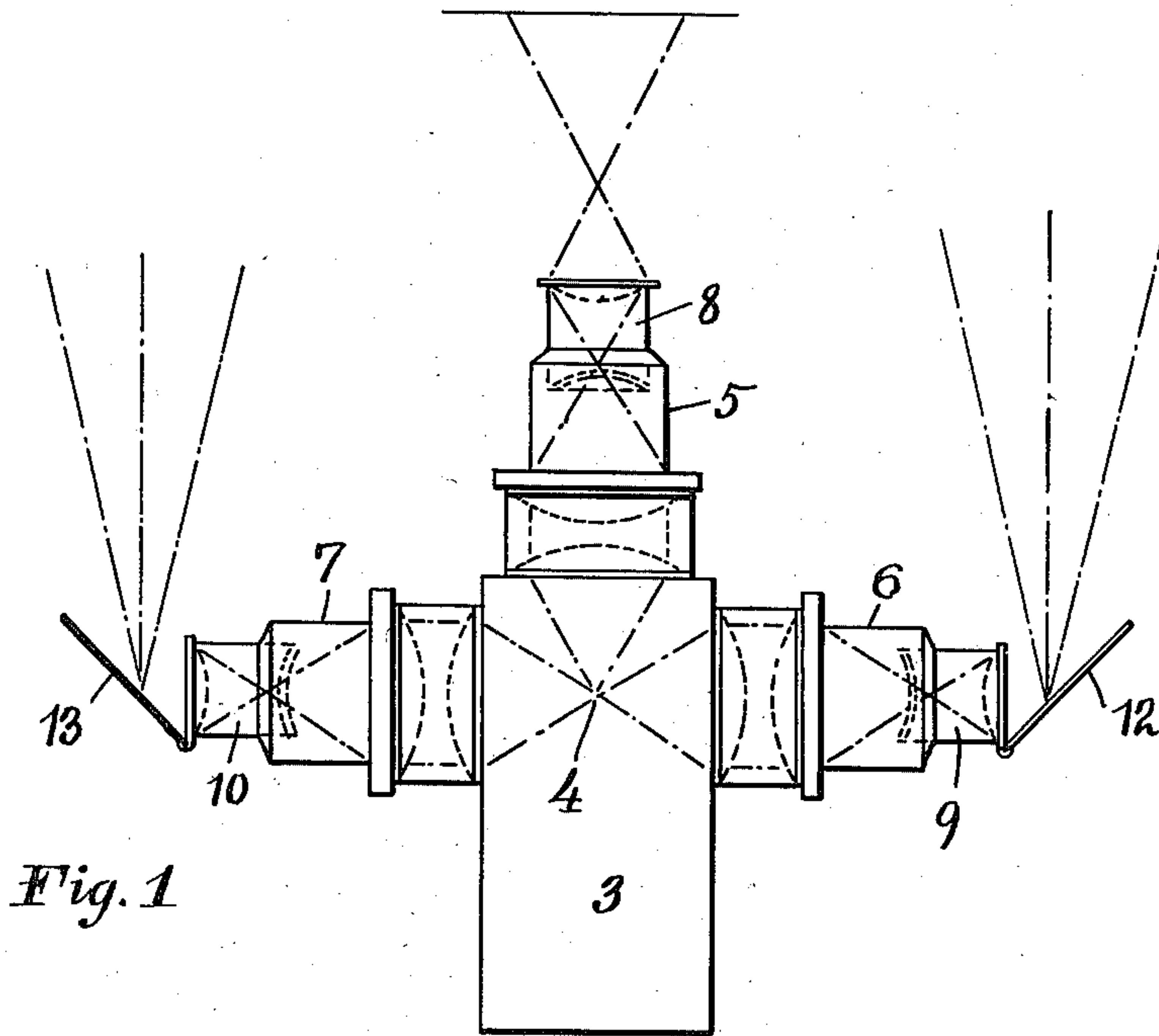


Fig. 1

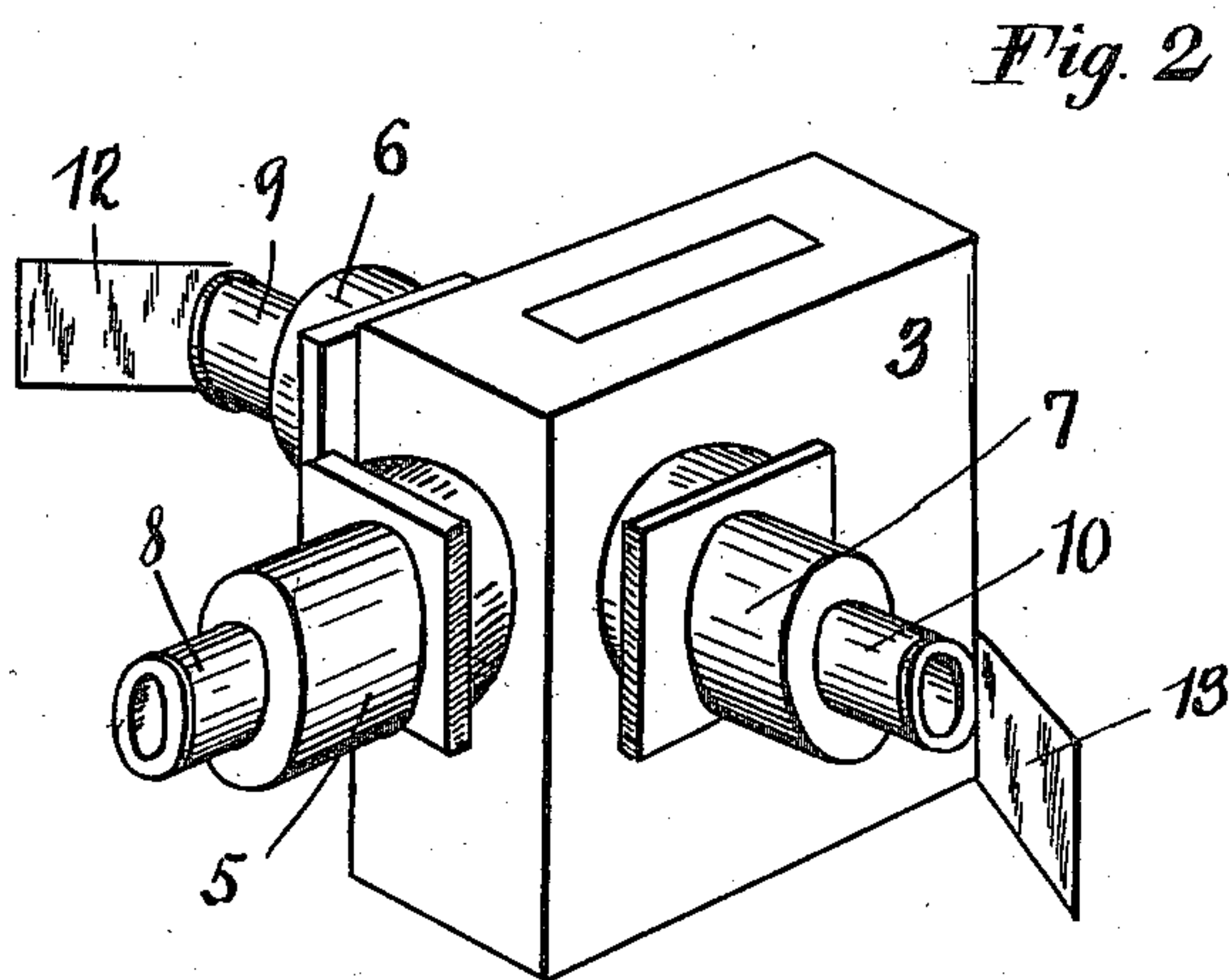


Fig. 2

Witnesses
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 By his Attorney, Howard A. Hill.

UNITED STATES PATENT OFFICE.

CARL E. NILSSON, OF NEW YORK, N. Y.

LIGHT-PROJECTING APPARATUS.

965,401.

Specification of Letters Patent.

Patented July 26, 1910.

Application filed October 19, 1908. Serial No. 458,465.

To all whom it may concern:

Be it known that I, CARL E. NILSSON, a subject of the King of Sweden, residing at New York city, in the county of New York and State of New York, have invented certain new and useful Improvements in Light-Projecting Apparatus, of which the following is a specification, reference being had therein to the accompanying drawing.

My invention relates to improvements in light projecting apparatus and may be so constructed that two or more light projections may be thrown from the one light. These projections may be cast simultaneously or successively and may be directed at any angle and are at all times entirely under the control of a single operator.

In the accompanying drawings Figure 1 is a plan view of one form of apparatus illustrating an application of my invention, and Fig. 2 is a perspective view of the same.

3 may be an ordinary lantern box provided with the usual light 4 which may be an electric arc or any of the preferred lights usually employed for such purposes.

5, 6 and 7 are the light projectors provided with the usual lenses and adjustments, the ends 8, 9 and 10 of which may be rotated within their bearings. Any or all of these ends are preferably provided with a suitable reflector preferably metallic which may be in the form of the mirrors 12 and 13 suitably hinged as shown in Fig. 2, so that the light 4 in radiating through the projectors 6 and 7 is reflected by the reflectors 12 and 13 as shown in the plan view in Fig. 1, the angle of reflection being determined by the adjustment of said reflectors.

In the use of stereopticons, spot lights and flood lights heretofore it has been the general practice to use several separate lanterns

requiring a separate attendant, each of these lanterns provided with a single projector. By use of the apparatus above set forth I may employ two or more projectors from a single light box in which the light is preferably located at a point from which it may radiate equally through the several projectors and by the use of reflectors such as described on any or all of said projectors said light may be thrown at any desired angle, either in a horizontal plane by the adjustment of said reflectors or in a vertical plane by the rotation of the ends of the projectors in their bearings. In the accompanying drawings the invention has been illustrated in its simplest form with three projectors and a single light, said projectors being mounted in substantially a horizontal plane. It will of course be readily understood that any number of projectors may be used and several lights may be used in the same apparatus. In fact various other modifications may be made without departing from the spirit of the invention.

Having described my invention, what I claim as new, and desire to secure by Letters Patent is:

In a light projecting apparatus, a light center, several projectors through which the light from said center may radiate, said projectors being in a direct line with the rays from said light center, and deflectors hinged to said projectors so as to deflect said light at different and adjustable angles to each other.

In testimony whereof I affix my signature in presence of two witnesses.

CARL E. NILSSON.

Witnesses:

C. NILSSON,

THOMAS A. HILL.