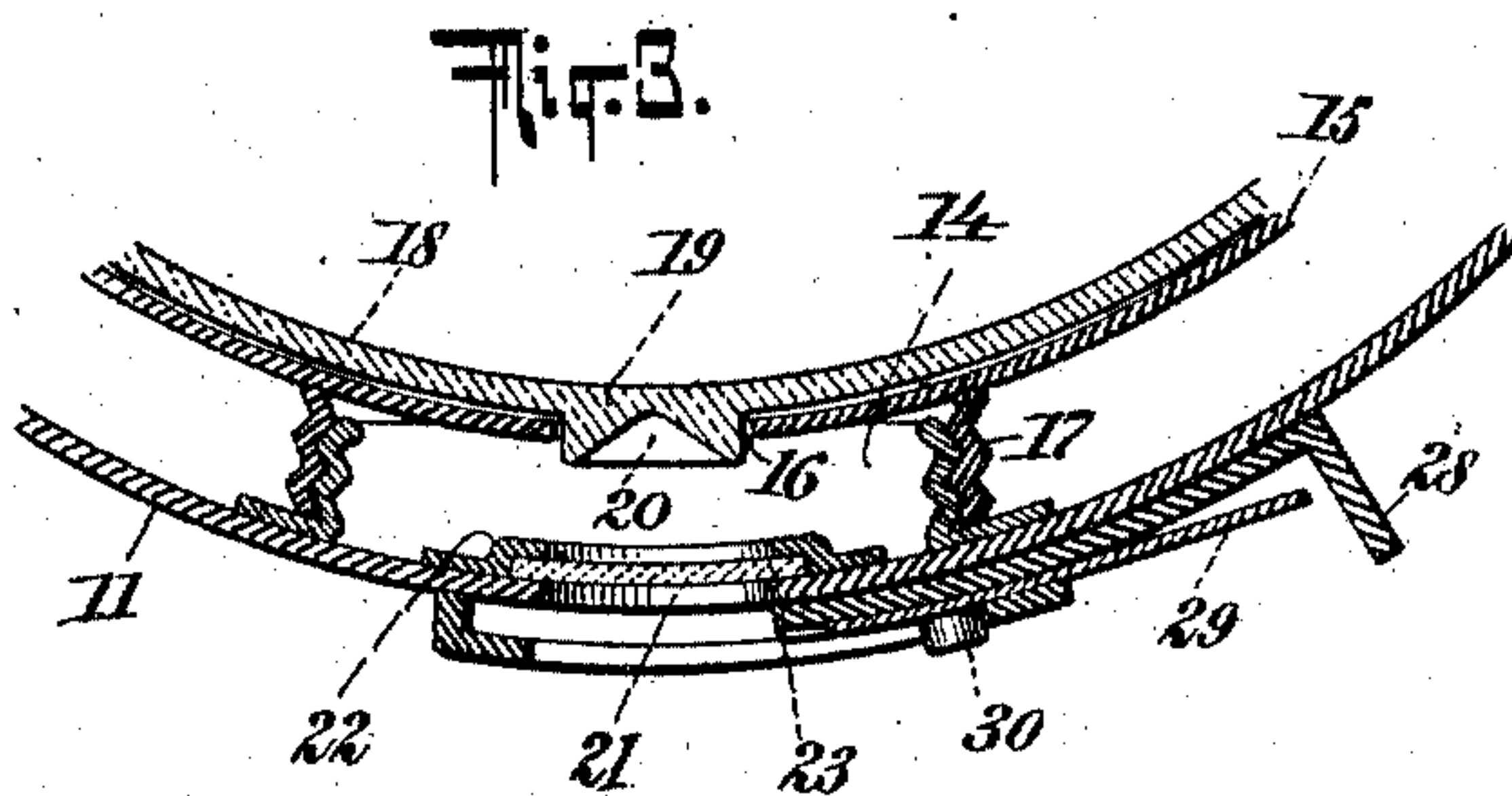
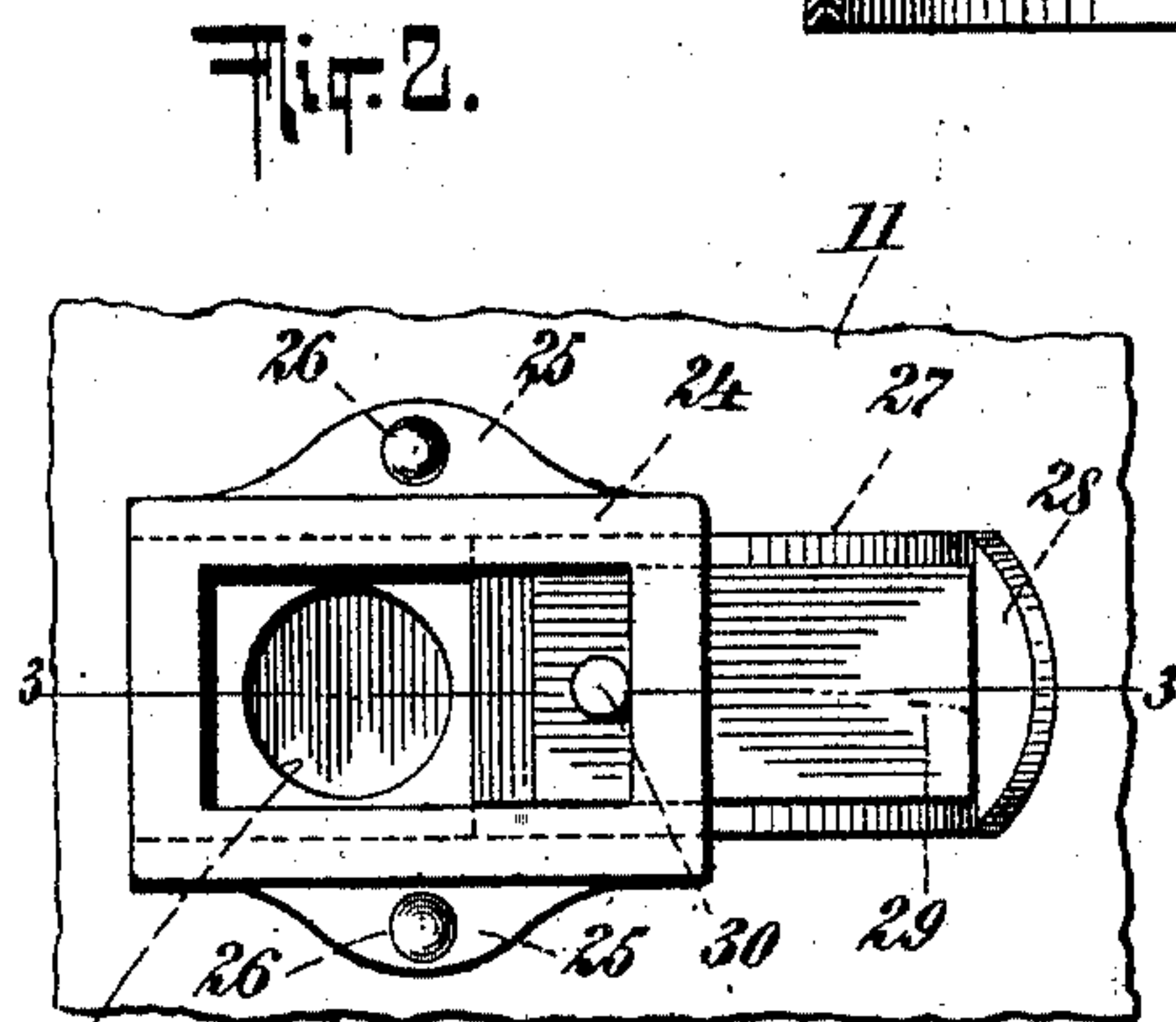
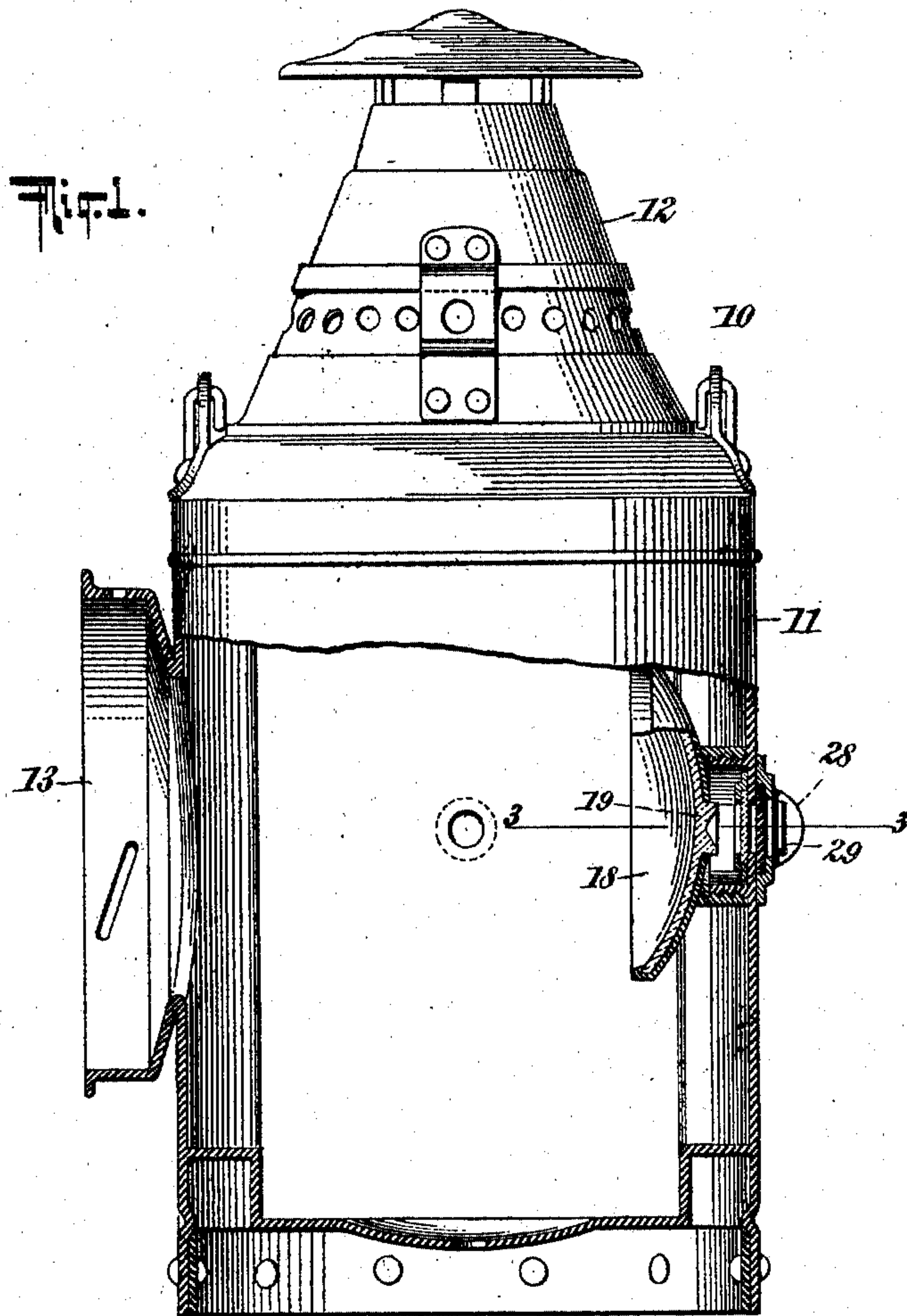


R. BLACK.
SIGNAL LAMP.

APPLICATION FILED JAN. 25, 1908.

967,161.

Patented Aug. 16, 1910.



WITNESSES:

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UNITED STATES PATENT OFFICE.

ROBERT BLACK, OF PLEASANTVILLE, NEW YORK, ASSIGNOR TO THE DRESSEL RAILWAY LAMP WORKS, A CORPORATION OF NEW YORK.

SIGNAL-LAMP.

967,161.

Specification of Letters Patent.

Patented Aug. 16, 1910.

Application filed January 25, 1908. Serial No. 412,561.

To all whom it may concern:

Be it known that I, ROBERT BLACK, a citizen of the United States, residing at Pleasantville, Westchester county, in the State of New York, have invented certain new and useful Improvements in Signal-Lamps, of which the following is a full, clear, and exact specification.

My invention relates to signal lamps, and the same has for its object more particularly to provide a simple, reliable and efficient means for shutting off the back light on semaphore or other signal lamps.

Further, said invention has for its object to provide a means for shutting off the back light in signal lamps of the character described, in which the movable member may be firmly held to its adjusted position so that the movements of the lamp upon the semaphore arm or other support for said lamp will not cause said movable member to be shifted or moved from its adjusted position.

Further, said invention has for its object to provide a means of shutting off the back light in lamps of the character described, in which the movable member will be held spring pressed in position to shut off the back light, and also when said movable member is shifted to expose the back light.

To the attainment of the aforesaid objects and ends my invention consists in the novel details of construction, and in the combination, connection and arrangement of parts hereinafter more fully described, and then pointed out in the claims.

In the accompanying drawings forming part of this specification, wherein like numerals of reference indicate like parts, Figure 1 is a side view showing a semaphore lamp partly broken away and in section, the same being provided with one form of device for shutting off the back light constructed to embody my said invention; Fig. 2 is an enlarged detail rear view of a portion of the lamp casing showing my attachment in front view thereon, and Fig. 3 is an enlarged detail horizontal section taken on the line 3—3 of Fig. 2.

In said drawings 10 designates the lamp as a whole comprising a cylindrical body portion 11 and a conical hood 12. At the front of the lamp is provided a lens holder 13 and upon the inner surface of the casing

directly to the rear of the lens holder 13 is provided a threaded member 14.

15 denotes a reflector frame provided at its center with an aperture 16 and a tubular threaded portion 17 extending from the rear surface of said reflector frame, which is adapted to engage the threaded portion 16 upon the inner side of the lamp casing 11 in order to support said reflector frame in position within the lamp.

18 denotes a glass reflector which is supported within the frame 15 and provided at its center with a rearwardly projecting portion 19 having a conical recess 20 therein. In the casing portion 11 directly in line with the projecting portion 19 of the reflector 18 is provided a circular aperture 21 and upon the inner side of said casing is secured a frame 22 in which is disposed a piece of glass 23 covering said aperture 21.

Upon the outer surface of the casing 11 is secured a curved rectangular frame 24 having projecting lugs 25 25 at its upper and lower edges, and 26, 26 denote rivets extending through said lugs 25 25 and into the casing portion 11 in order to secure said frame 24 in position upon the lamp casing 11 about the aperture 21 therein.

The frame 24 has a rectangular longitudinal opening therein and the rear surface of said frame is recessed longitudinally to receive a curved sliding plate 27 provided at its projecting end with an outwardly extending finger portion 28 and upon the outer surface of said sliding plate 27 is disposed a spring plate 29 of slightly smaller outline than the plate 27 having its outer end free and its inner end secured adjacent to the inner end of the plate 27 by an upwardly extending stud 30 arranged within the rectangular opening of the frame 24.

In the operation of the device it will be noted that when the sliding plate 27 is adjusted within the frame to cover the aperture 21 in the lamp casing 11 the said plate 27 will be held firmly in position within the frame by reason of the tension of the free end of the spring 29 bearing against the inner surface of the frame 24, thereby holding said plate rigidly in position, and in such manner that the same will not become shifted by reason of the operation of the semaphore arm or whatever the character of the body may be upon which the lamp proper is

supported, and that at the same time by reason of the spring pressed arrangement of the plate 27 the same will be so held in position within the frame that it cannot rattle
5 therein.

When the sliding plate 27 is drawn outwardly as shown in Figs. 2 and 3, the stud 30 will serve to limit the outward movement of said plate and the spring 29 serve to hold
10 the same to its adjusted position and prevent the sliding plate working inward owing to the fact that its free end springs away from the outer surface of the plate 27 when the same is withdrawn.

15 Having thus described my invention what I claim and desire to secure by Letters Patent is:

1. A lamp of the character described having an aperture therein, a support arranged
20 in front of said aperture, a plate slidably mounted in said support, spring means for securing said plate to its adjusted positions within said support, and means for securing said spring means to said plate, said means
25 also serving to limit the movement of said plate, substantially as specified.

2. A lamp of the character described, having an aperture therein, a frame secured to

said lamp surrounding said aperture, a cover plate slidably mounted in said frame, 30 a spring plate corresponding in outline substantially with said cover plate, and means for securing said spring plate at one end to said cover plate, said means serving to limit the movement of said cover plate within
35 said frame, substantially as specified.

3. A lamp of the character described having an aperture therein, a frame secured upon said lamp surrounding said aperture, a cover plate slidably mounted in said
40 frame, a spring plate thereon, a finger portion provided at the outer end of said cover plate, a stud for securing the inner end of said spring plate to said cover plate, having a portion extending outwardly therefrom
45 adapted to contact with the ends of said frame for limiting the movement of said cover plate within said frame, substantially as specified.

Signed at the city of New York, in the
50 county and State of New York, this ninth day of January, nineteen hundred and eight.

ROBERT BLACK.

Witnesses:

CONRAD A. DIETERICH,
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