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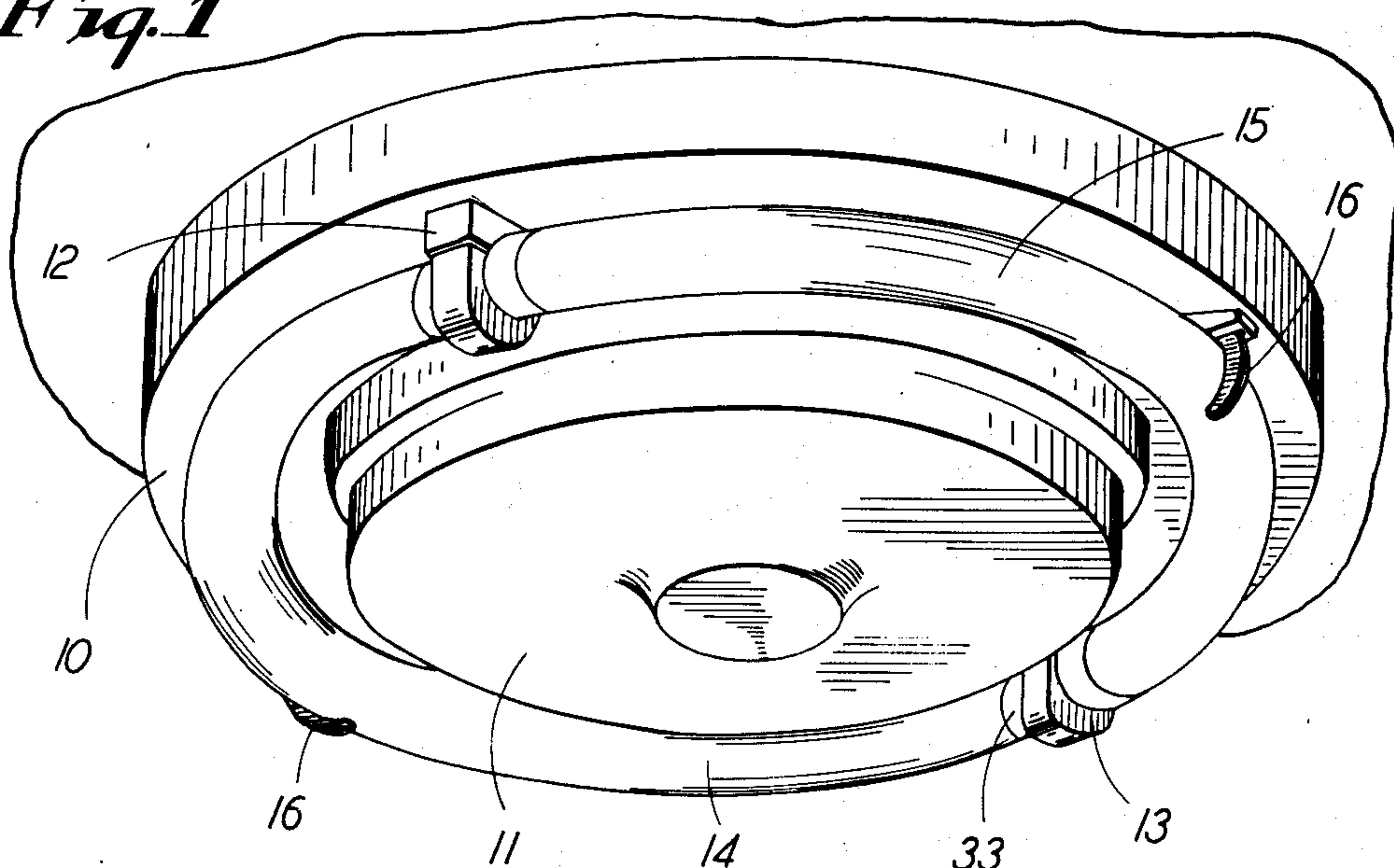
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2,653,784

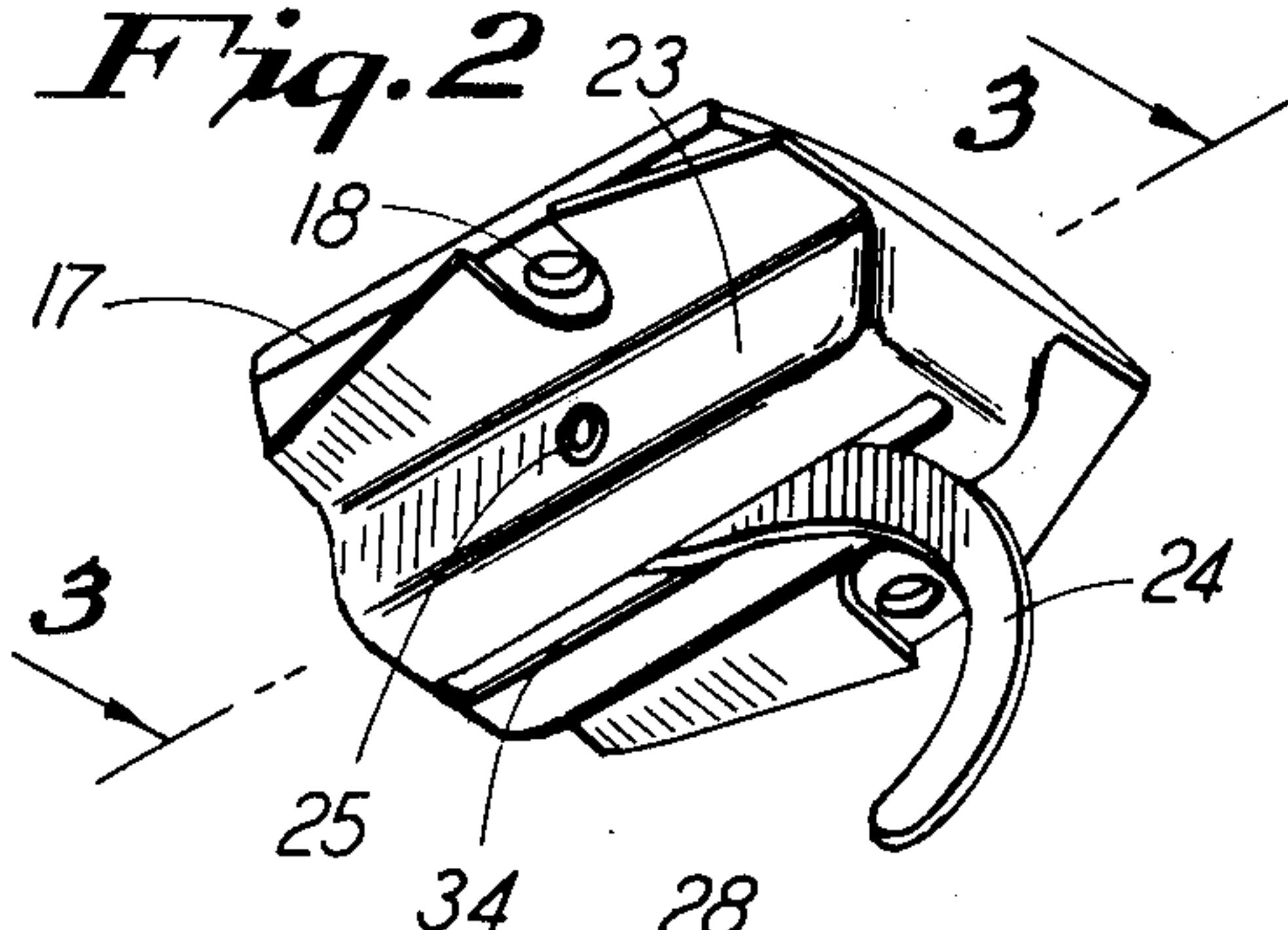
SPRING LOCK LAMP HOLDER

Filed Feb. 8, 1949

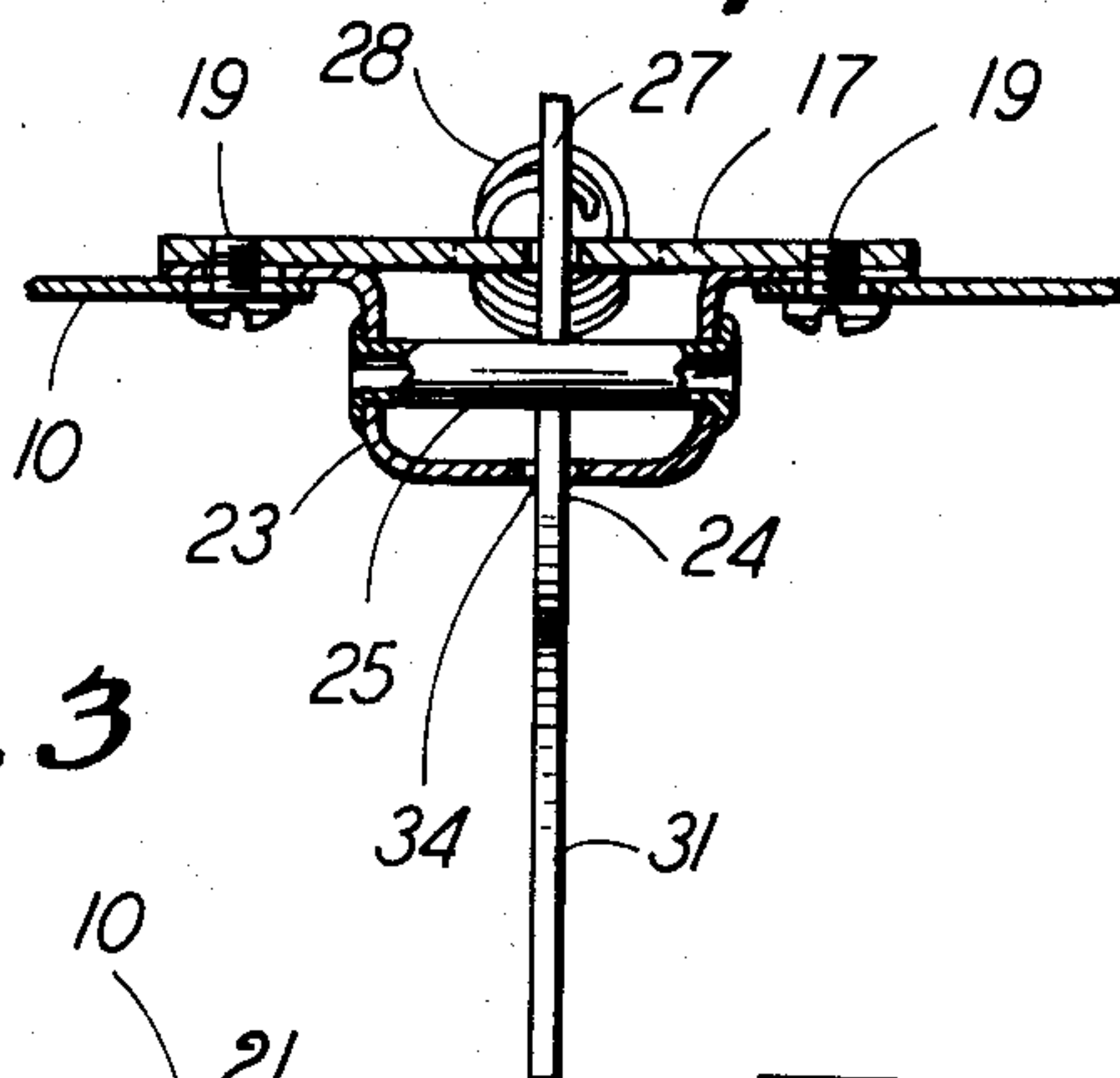
*Fig. 1*



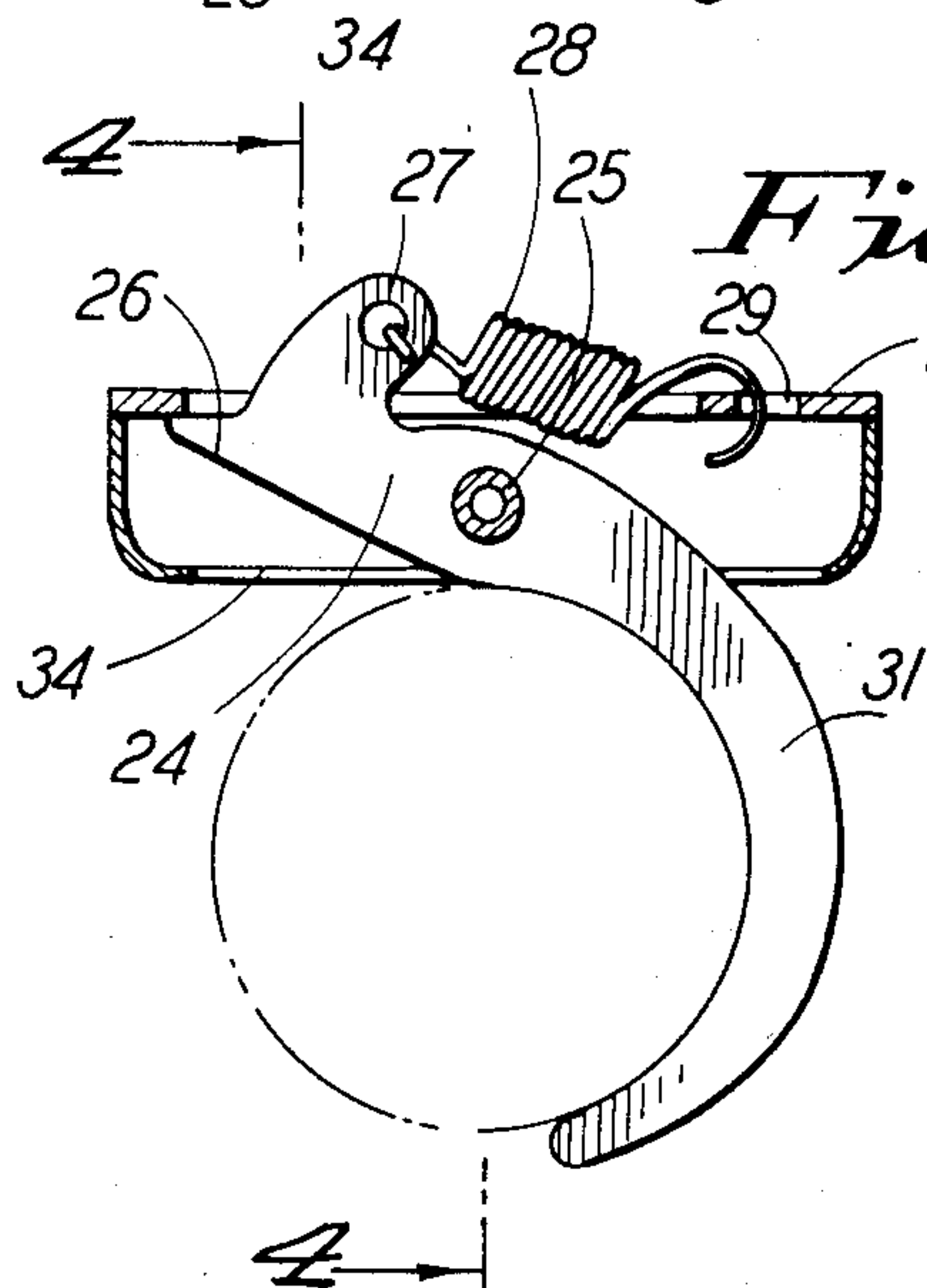
*Fig. 2*



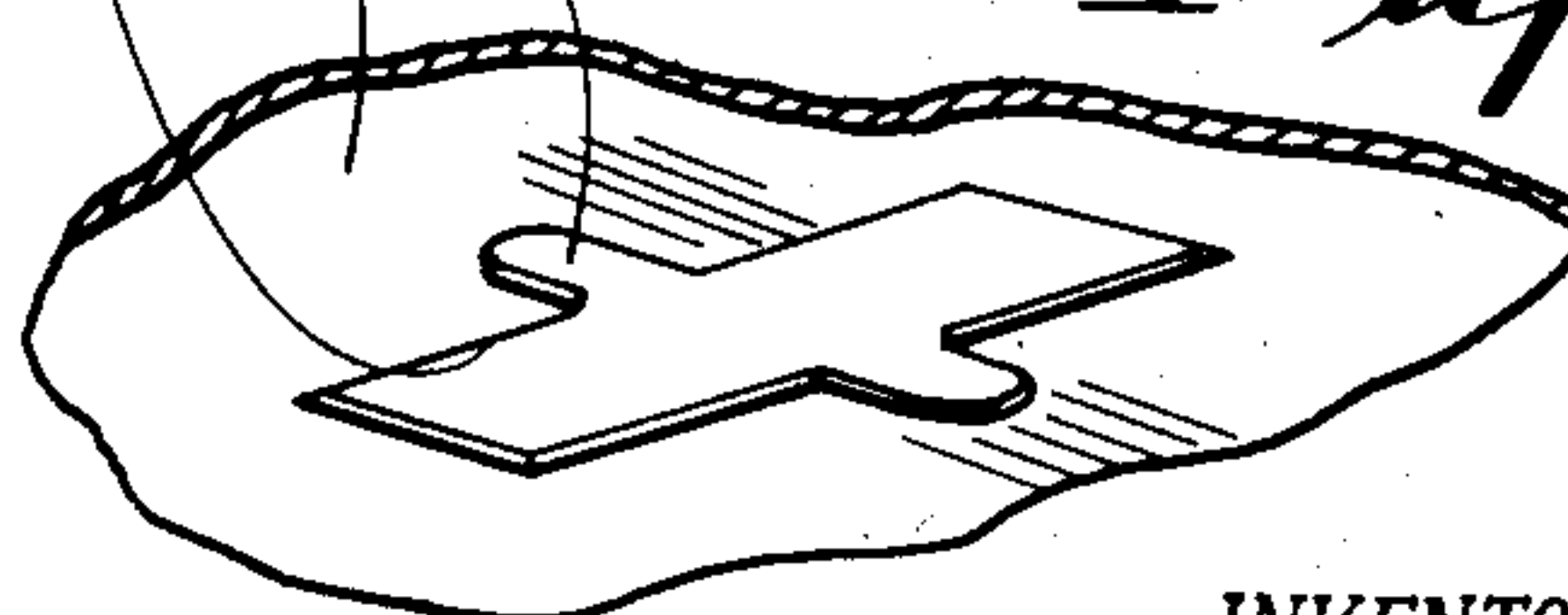
*Fig. 4*



*Fig. 3*



*Fig. 5*



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## UNITED STATES PATENT OFFICE

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## SPRING LOCK LAMP HOLDER

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1 Claim. (Cl. 248—316)

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This invention relates to a spring lock lamp holder.

It is an object of the present invention to provide a spring lock lamp holder adapted to be used with fixtures for securing the fluorescent lamp element intermediate its connection with the fixture through its terminals wherein the lamp element will be securely held upon the fixture and easily removed therefrom at times when the same is to be replaced with another lamp.

Other objects of the present invention are to provide a spring lock lamp holder which can be readily inserted into a slot in the fixture adapted to receive the same and made secure therein by a simple fastening screw, which is inexpensive to manufacture, is spring urged onto the lamp, easy to assemble, adapted for adjustment upon a fixture to properly receive the lamp element and efficient in operation.

For other objects and for a better understanding of the invention, reference may be had to the following detailed description taken in connection with the accompanying drawing, in which

Fig. 1 is a perspective view of a lamp fixture having the spring lock lamp holder of the present invention.

Fig. 2 is a perspective view of the lamp holder.

Fig. 3 is a longitudinal sectional view of the lamp holder taken on line 3—3 of Fig. 2.

Fig. 4 is a transverse sectional view of the lamp holder taken on line 4—4 of Fig. 3.

Fig. 5 is a fragmentary view of the fixture having the slot into which the lamp holder is placed and secured.

Referring now to the figures, 10 represents a base of a lamp fixture adapted to be connected to the ceiling of a room in which the lamps are being installed and onto which there is assembled a casing 11 containing such equipment as is necessary for the effecting of the operation of the lamp and brackets 12 and 13 for supporting semi-circular fluorescent lamp elements 14 and 15. These lamp elements need to be supported intermediate their length in order that they will not become disconnected from the supporting brackets 12 and 13 and for this purpose there is provided my spring lock lamp holder 16. There is one of these holders at each side of the base 10.

This lamp holder comprises a top plate 17 having laterally spaced threaded openings 18 for receiving fastening screws 19 which are extended through laterally extending notches 21, opposing each other, and extending respectively from the opposite sides of a large opening 22 in a base 10.

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A casing 23, formed in a stamping operation, is welded to the plate 17 and houses the upper end of a latch or pivot arm 24 carried on a pivot member 25 extending between the sides of the casing 23. This arm has a shoulder 26 adapted to abut the plate 27 as shown in Fig. 3, to limit the pivotal movement of the arm. The plate 17 has an opening upwardly through which a lug 27 is extended for connection with a tension spring 28 which is connected also to the plate 17 through an opening 29, Fig. 3. This spring normally urges the arm 24 so that the shoulder 26 abuts the plate 17.

The arm 24 has a curved portion 31 adapted to partially surround the lamp element and to hold it elevated upon the base support 10.

Each of the lamp elements 14 and 15 have the usual terminal rings 33 with projections adapted to enter the brackets 12 and 13 respectively. These terminal connections, however, are insufficient to hold the lamp element intermediate its ends and hence the lamp holder of the present invention provides for a final and secure means for maintaining the lamp element in place and against outward movement from the brackets 12 and 13.

The casing 23 has a long slit 34 through which the arm 24 pivots. The lamp holder is so arranged that the curved portion 31 of the arm 24 lies externally of the lamp element. To remove the lamp element, a downward pressure is effected with the same so that the arm 24 and the curved portion 31 thereof will pivot outwardly to release the lamp element. To return the lamp element, the arm 24 can be pivoted outwardly a slight distance to seat the lamp element in the curved portion 31. Both operations are simple, safe and easy and can be effected with a snap or spring action.

To install the lamp holder in the base 10, it is extended through the opening 22 from the top or inner face of the base 10. The screws or fastening elements 19 are extended upwardly through the notches 21 and into the threaded holes 18 of the plate 17. The holder can be adjusted slightly in the opening 22 and with relation to the notches in order that the curved portion 31 of the arm 24 will be properly aligned for receiving the lamp element.

While various changes may be made in the detail construction, it shall be understood that such changes shall be within the spirit and scope of the present invention as defined by the appended claim.



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What is claimed is:

A self-contained spring lock fluorescent lamp holder adapted for attachment to a lamp fixture by installation through an opening in the fixture with opposed notches comprising a top plate, a casing secured to the top plate, said casing having a depressed portion with an elongated slot therein and parallel side walls with flanges extending respectively outwardly therefrom and connected to the top plate, a pivot arm extending through the longitudinally extended slot of the depressed portion of the casing, a pivot pin extending between the side walls of the depressed portion supporting the pivot arm, said pivot arm having a curved portion thereon for receiving a fluorescent tube, said top plate having an elongated slot therein and a hole spaced therefrom, said pivot arm having an upstanding lug thereon, a tension spring extending between the upstanding lug and the hole in the top plate normally urging the pivot arm about its pivot member and its curved portion toward the fluorescent tube, said pivot arm having a shoulder thereon engage-

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able with the top plate to limit the pivotal movement of the pivot arm toward the fluorescent tube, said pivot arm being pivotable against the action of the tension spring to release the fluorescent tube, and said top plate having means accessible through the opposed notches of the fixture adapted to secure the holder to a lamp fixture.

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