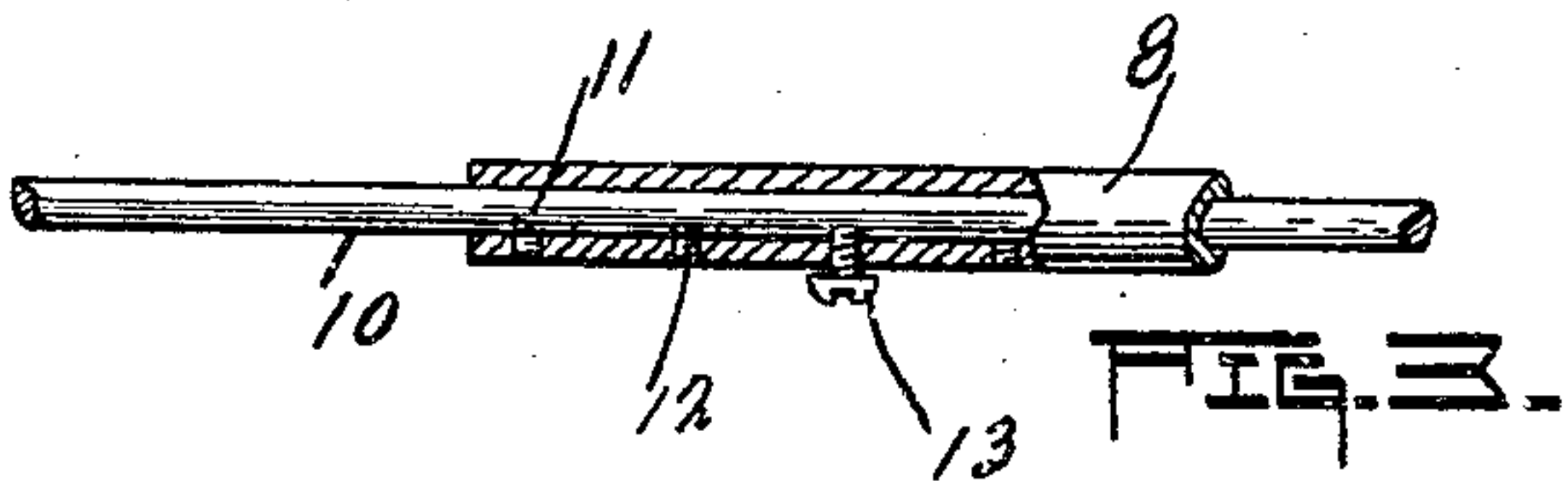
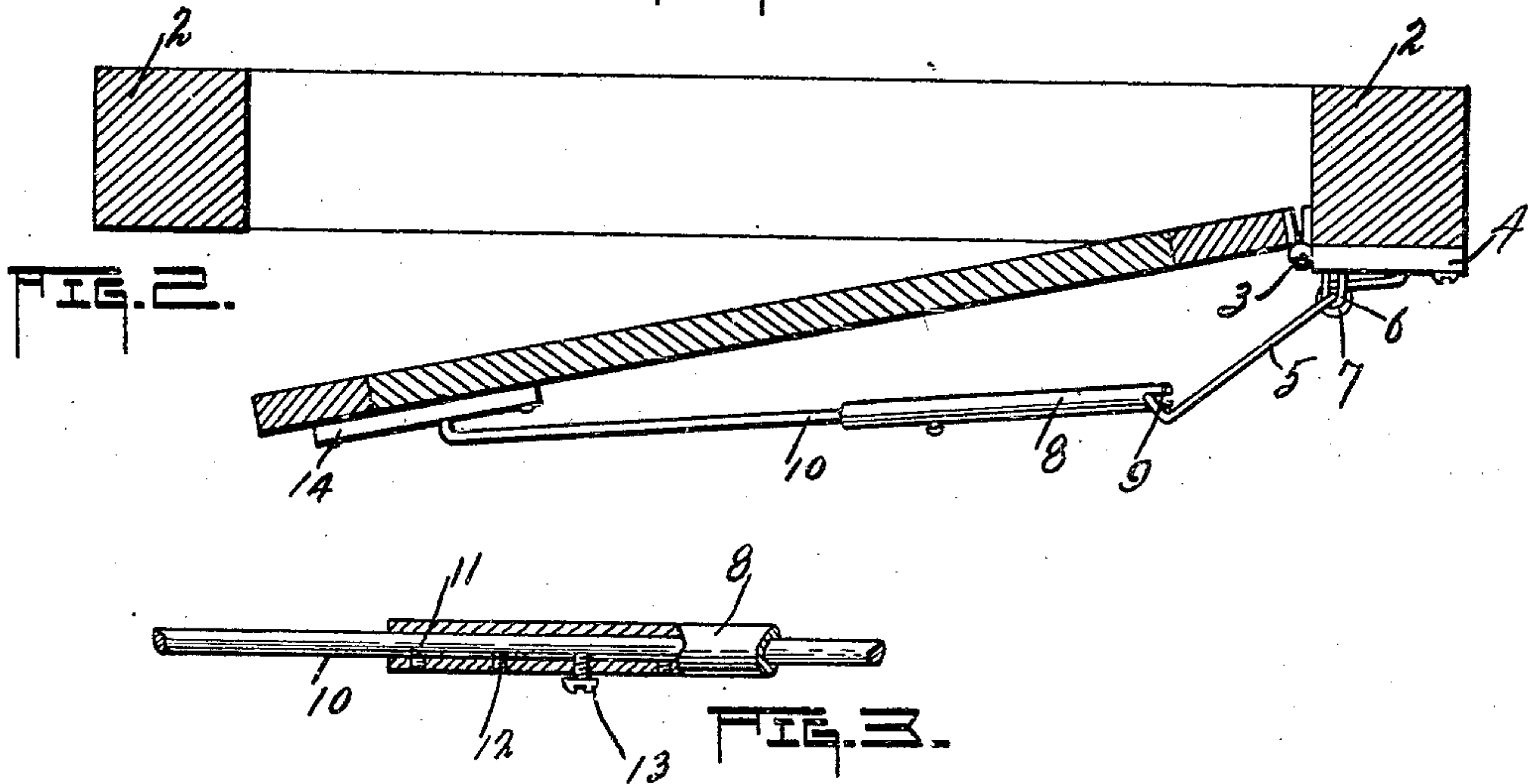
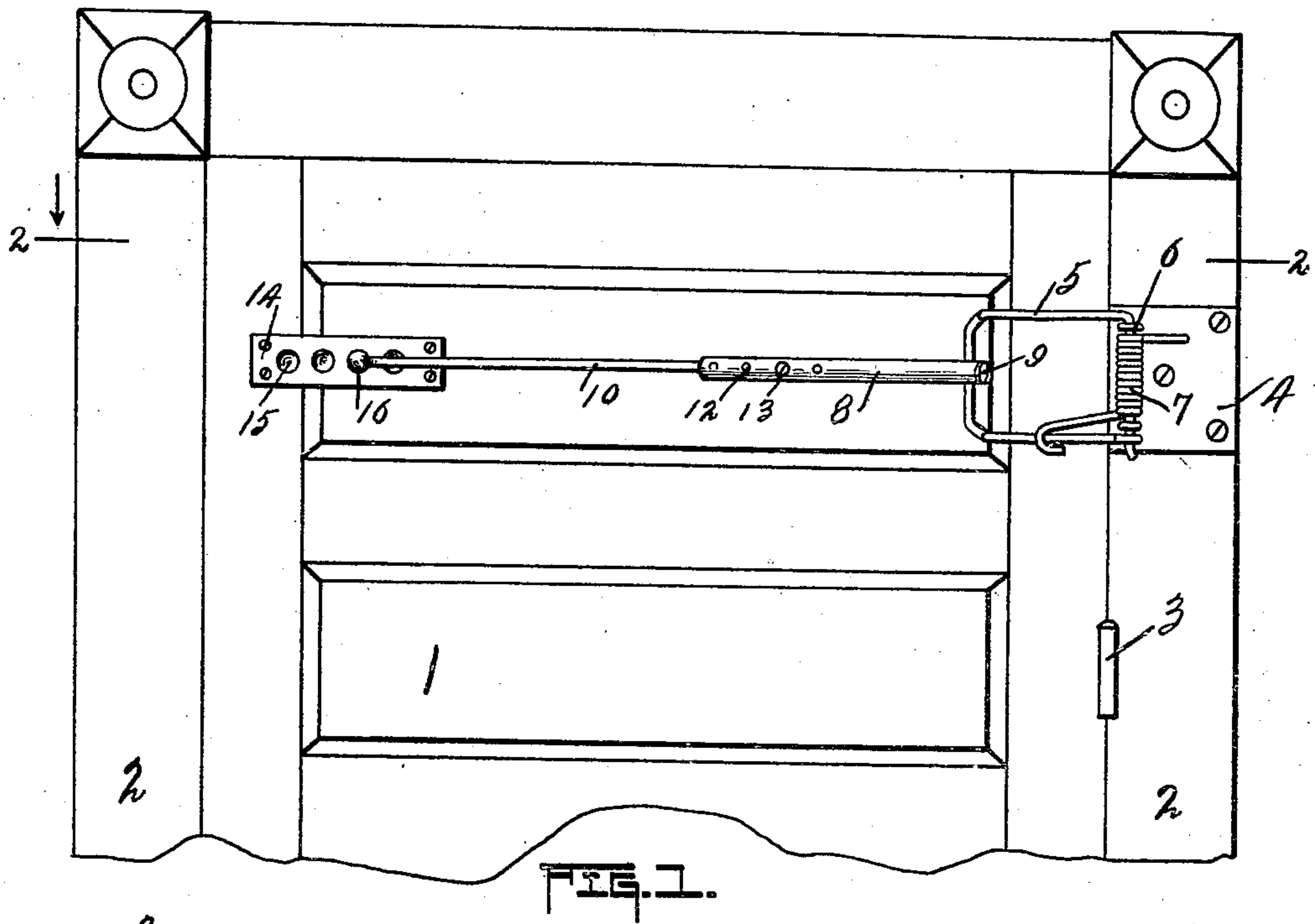


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DOOR CLOSURE.
APPLICATION FILED AUG. 24, 1908.

931,701.

Patented Aug. 17, 1909.



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UNITED STATES PATENT OFFICE.

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DOOR-CLOSURE.

No. 931,701.

Specification of Letters Patent.

Patented Aug. 17, 1909.

Application filed August 24, 1908. Serial No. 450,016.

To all whom it may concern:

Be it known that I, JOHN NEWSAM, a citizen of the United States, residing at Peoria, in the county of Peoria and State of Illinois, have invented certain new and useful Improvements in Door-Closures; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

This invention has reference to certain new and useful improvements in door closures, and has for its object to provide a door closure, consisting of a spring controlled arm intended to be secured to the door casing, and a lever connection with said spring controlled arm, which is adjustable lengthwise, and may or may not have an adjustable connection with the door, whereby when the door is opened, it will be opened under the pressure of the tension of the spring controlled arm, which will act to automatically close the said door immediately upon its being released.

In order to enable others skilled in the art to which my invention appertains, to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a greatly reduced elevation showing a portion of the door and the casing surrounding the same, and with my improvement applied thereto; Fig. 2 is a cross section in plan as the same would appear if taken on the line 2—2 of Fig. 1, looking in the direction of the arrow, with the door partly open and in the act of being closed, by my closure which is shown applied thereto, and Fig. 3 is a sectional detail, showing the mode of adjusting lengthwise the rod connection between the spring controlled arm and the door.

Like numerals of reference indicate corresponding parts throughout the figures.

1 designates a door and 2 the casing surrounding the same, both being of the usual, or well known constructions with the door hinged to the casing 2, at 3.

Referring particularly to my improved closure, 4 designates a block which is preferably attached or secured to the casing to which the door is hinged, and to this block is attached a spring controlled arm 5, preferably of the construction shown, although any arm which has for its object to serve the same purpose and which will operate sub-

stantially in the same way, may be substituted without departing from the spirit or scope of the invention herein. In the preferred construction, one portion of the arm 5 is secured by staples 6, to the block 4, with the opposite end of said arm looped about the end which projects through the staples, as shown, and 7 denotes a coil spring, one end secured to the block 4 and its opposite end bearing against one of the horizontal and parallel portions of the arm 5, for the purpose of exerting pressure to hold the arm 5 open, and normally in that position shown in Fig. 1.

8 denotes a tubular rod or sleeve slotted at its outer end, as indicated at 9, in which the arm 5 is carried, and having a telescopic as well as an adjustable connection with the opposite end of the tubular rod or sleeve 8, is a rod 10, which said rod is provided with a plurality of indentations 11, adapted to be brought coincident with perforations 12, in the tubular rod or sleeve 8, and a screw 13 is employed for locking the rod 10 in adjustable position in the tubular rod 8, by inserting the screw 15 through either one of the perforations 12, and causing it to engage one of the indentations 11 in the rod 10. By providing lengthwise adjustment in the rod connection between the arm 5 and the door, I am enabled to attach the device to different sizes of doors, and to also increase or decrease the leverage through such connections. While the rod 10 may be connected in any suitable manner at its outer end with the door 1, yet I provide means for adjustably connecting said rod with the door, whereby it might also be very easily detached therefrom. This connection comprises a plate or block 14 provided with a plurality of bowl shaped sockets 15, in either of which may rest a ball 16, which may be attached to or formed integral with the end of the rod 10.

While I have shown the device attached at or near the top of the door, it is to be understood that connection may be had at the door at any other desired place, and while I have shown the rod 10 adapted to have an adjustable connection with a member similar to the plate or block 14, it is to be understood, that an ordinary staple may be employed with which the end of the rod might have connection, and the same result be thereby obtained.

In operation, upon opening the door, the arm 5 will be oscillated or swung on a pivot

formed by the connection of the arms with the staple 6, and such operation will compress the spring 7, which, upon the release of the door, will exert sufficient pressure upon the sleeve 8 and the rod 10, to return the door to a closed position.

Having thus fully described my invention, what I claim and desire to secure by Letters Patent of the United States, is:—

10 1. In a door closer, the combination of a block, an arm hinged to said block and under the control of a coil spring encircling a portion of the said arm, a tubular rod having a slotted end, in which a portion of
15 the hinged arm is seated, and a rod adapted to have connection at one end with the door, and its opposite end lengthwise adjustable in said tubular rod.

20 2. In a door closer, the combination of a hinged arm formed of wire and bent into suitable shape, a coiled spring for controlling said arm, and a rod, one end slotted to receive a portion of the arm, and its opposite end adapted to be connected with the
25 door.

30 3. In a door closer, the combination of a hinged arm formed of wire and bent into suitable shape, so as to have a vertical engaging portion, a coil spring for controlling said arm, a tubular rod having one end slotted to receive the engaging portion of

said arm, and a rod having a telescopic connection with said tubular rod and means for securing the last mentioned rod in the tubular rod.

4. In a door closure, the combination of a hinged wire arm, a coil spring for controlling said arm, a rod having a slotted end forming a seat for a portion of the hinged arm, a plate provided with a plurality of bowl shaped sockets, to form an adjustable connection for the outer end of the rod with said plate.

5. In a door closure, the combination of a hinged wire arm, a coil spring for controlling said arm, a tubular rod having a slotted end forming a seat for a portion of said arm, a rod having an adjustable connection with said tubular rod, said last mentioned rod having a spherical outer end, and a plate having a plurality of bowl shaped sockets, each of which forms a seat for the spherical end of the rod aforesaid, whereby said rod may have an adjustable connection with said plate.

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

JOHN NEWSAM.

Witnesses:

CHAS. W. LA PORTE,
LAURA E. CLAYPOOL.