

No. 750,956.

PATENTED FEB. 2, 1904.

H. E. ESSIG.
WINDOW SASH PULL.
APPLICATION FILED NOV. 19, 1903.

NO MODEL.

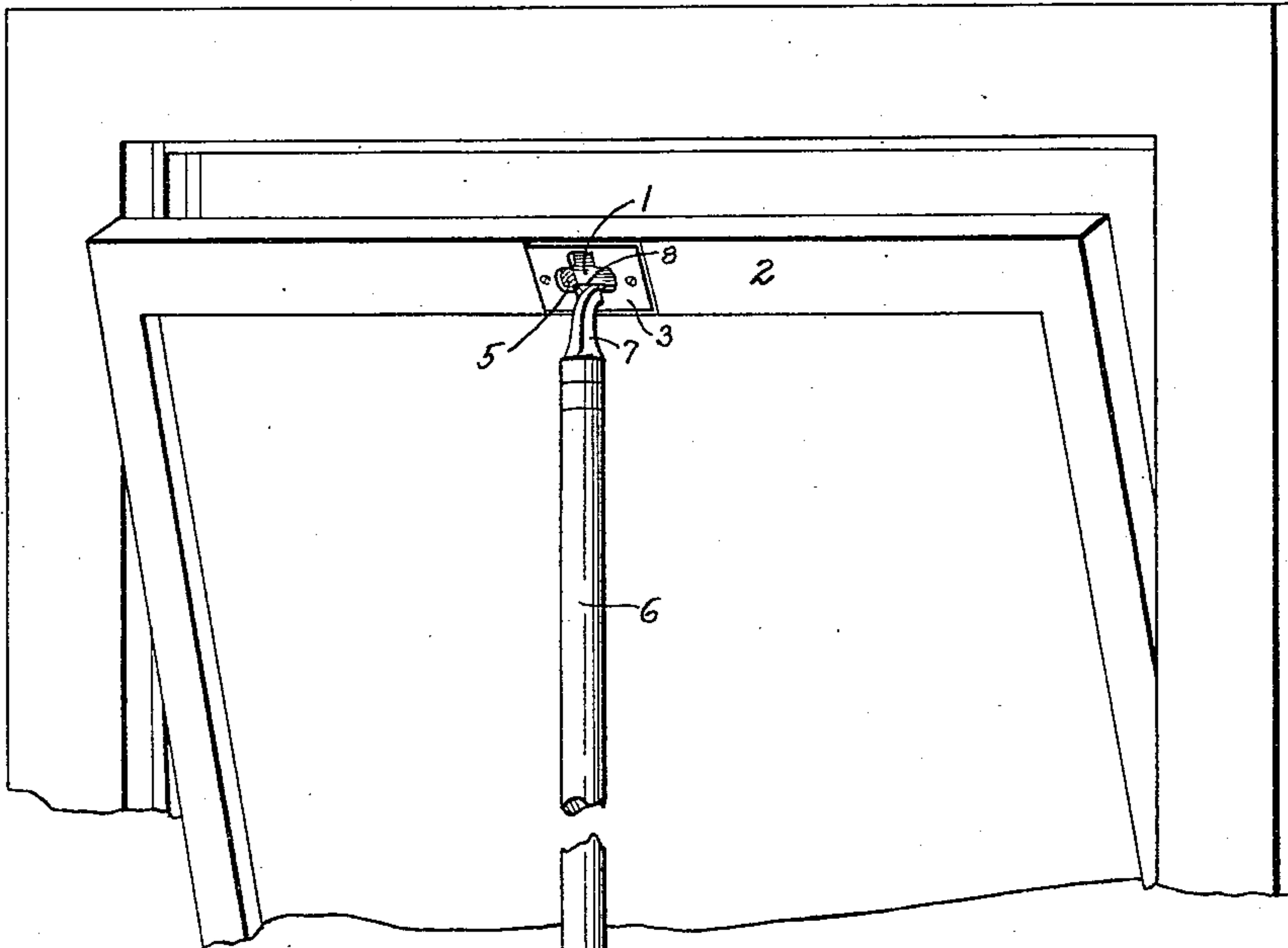


Fig. 1

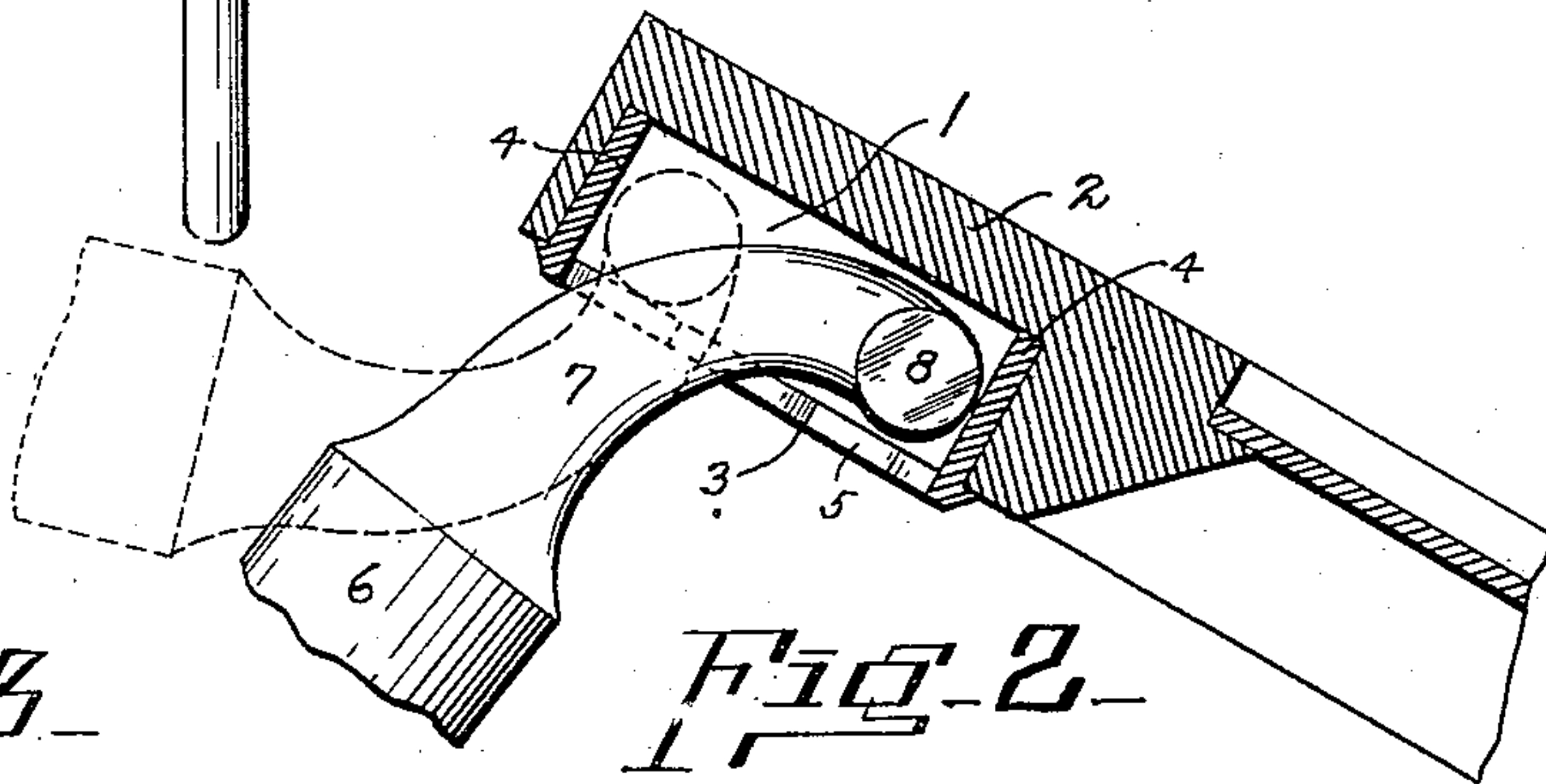


Fig. 2

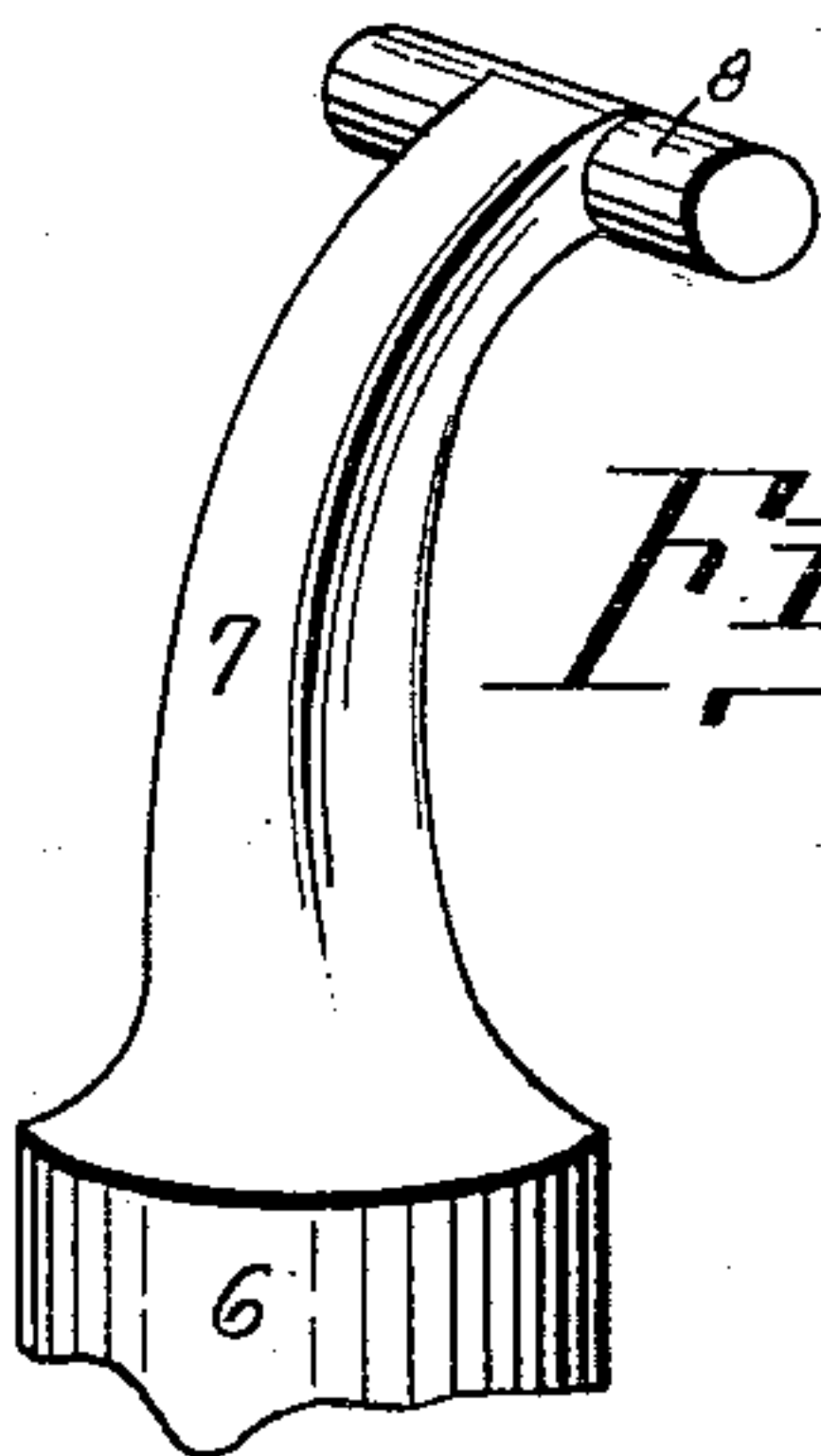


Fig. 3

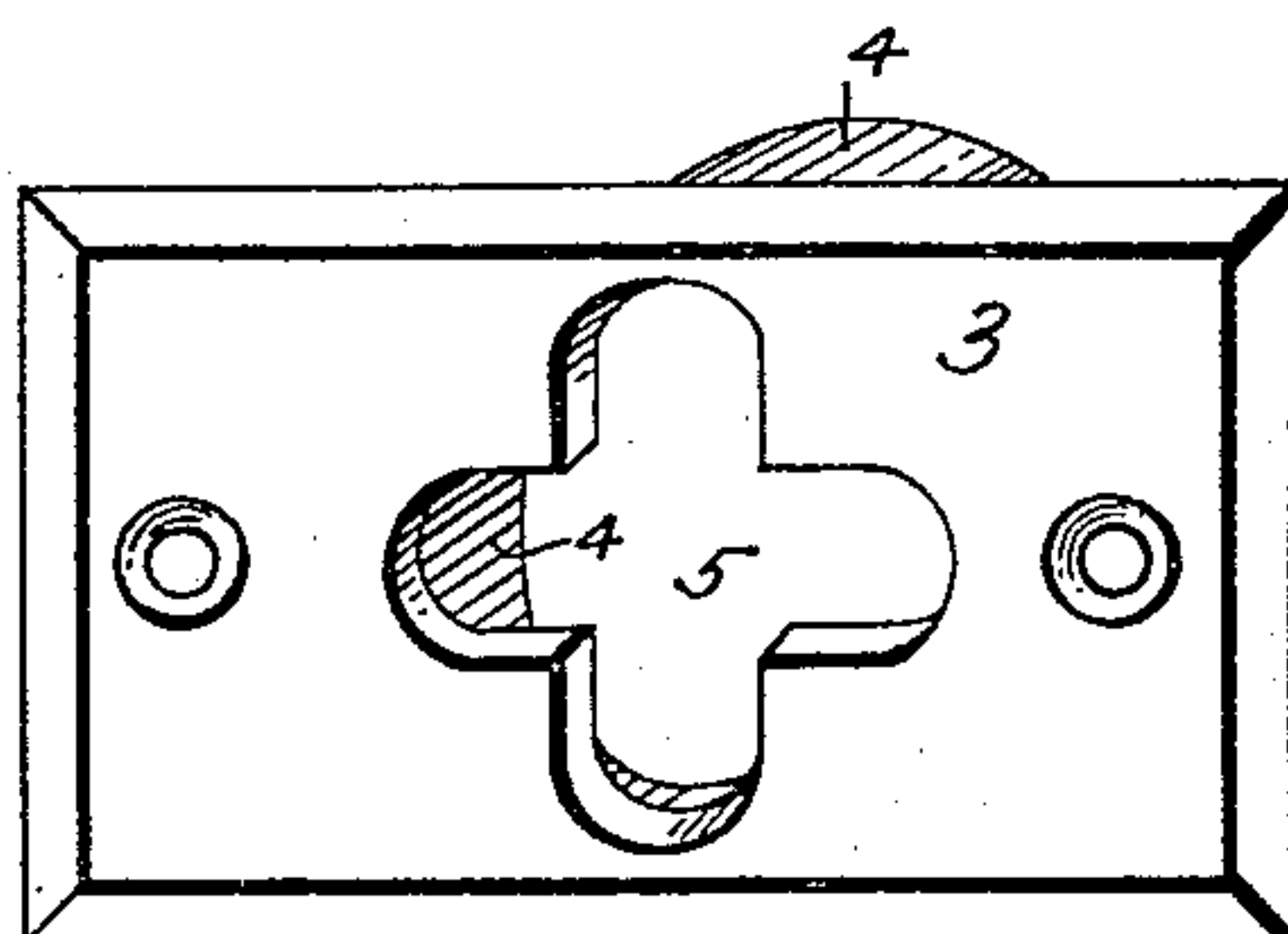


Fig. 4

WITNESSES:

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HARRY E. ESSIG, OF CANTON, OHIO, ASSIGNOR TO THE ESSIG PIVOT WINDOW COMPANY, OF PITTSBURG, PENNSYLVANIA, A CORPORATION.

WINDOW-SASH PULL.

SPECIFICATION forming part of Letters Patent No. 750,956, dated February 2, 1904.

Application filed November 19, 1903. Serial No. 181,766. (No model.)

To all whom it may concern:

Be it known that I, HARRY E. ESSIG, a citizen of the United States, residing at Canton, in the county of Stark and State of Ohio, have invented a new and useful Improvement in Window-Sash Pulls, of which the following is a specification.

The invention relates to a sash-pull for use more particularly in windows where the sash is horizontally pivoted in the frame; and the objects of the improvement are to provide a socket in the sash which will readily receive a head on the end of a pole, the parts being so shaped and arranged that the turning or rotation of the sash in the frame will not cause the head to bind in the socket, and so that the pole can be used from above or below and to push or pull in the socket according to the location of the sash. I attain these objects by the construction and arrangement illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of part of a window, showing the pull in use and the sash part way open; Fig. 2, a fragmentary section showing the pole-head in the sash socket; Fig. 3, a perspective view of the pole-head; and Fig. 4, a perspective view of the socket-plate.

Similar numerals refer to similar parts throughout the drawings.

The socket 1 is formed by cutting a recess in the sash-bar 2, over which recess is screwed or otherwise fastened the plate 3. The tubular flange 4 is preferably formed on the plate to form a metallic wall for the socket. In the middle of the plate is provided the aperture 5, formed as a Greek cross, with the ends of the arms preferably rounded, which aperture forms the mouth of the socket.

The head of the pole 6 is formed with a shank or neck 7, which is preferably curved, on the end of which shank is provided the cross-bar 8, thus forming a T-head. The cross-bar is preferably round in section and is adapted to freely enter the horizontal section of the cross-aperture, after which when

it is desired to make a downward pull the cross-bar is pulled down into the socket behind the plate, the shank of the head entering the lower vertical section of the cross-aperture, as shown in Fig. 1.

As the sash is pulled down the pole-head rotates in the socket on the cross-bar as a pivot, and the shank finally leaves the lower vertical section and enters the upper vertical section of the cross-aperture, as shown in Fig. 2. The broken lines in Fig. 2 show another manner of using the pole-head in the socket, which is preferably used when the sash is reached from above.

To close the sash by pushing from below, the T-head is entered into the socket and pushed up behind the plate, the shank of the head entering the upper vertical section of the cross-aperture. In all the various uses the head is readily entered into and removed from the socket through the horizontal section of the cross-aperture, and when the pole is pushed or pulled the cross-bar of the head is firmly retained in the socket behind the plate and the shank of the head alternately enters the upper or lower vertical sections of the cross-apertures to accommodate the varying angles of the sash and the pole, and by means of the T-head there is always a square and direct push or pull without any tendency to twist the pole.

What I claim as my invention, and desire to secure by Letters Patent, is—

A sash-pull comprising a sash-socket closed by a plate having a Greek-cross aperture therein, and a pole-head having a cross-bar on its end adapted to enter the socket through the horizontal section of the aperture and to rotate therein, the shank being adapted to operate in the vertical section of the aperture.

In testimony whereof I have signed my name, in the presence of two subscribing witnesses, at Canton, Ohio.

HARRY E. ESSIG.

Witnesses:

W. H. HOOVER,
HARRY FREASE.