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PATENTED APR. 17, 1906.

M. H. BALLEW & R. A. MEAD.

SASH PULLEY.

APPLICATION FILED OCT. 24, 1905.

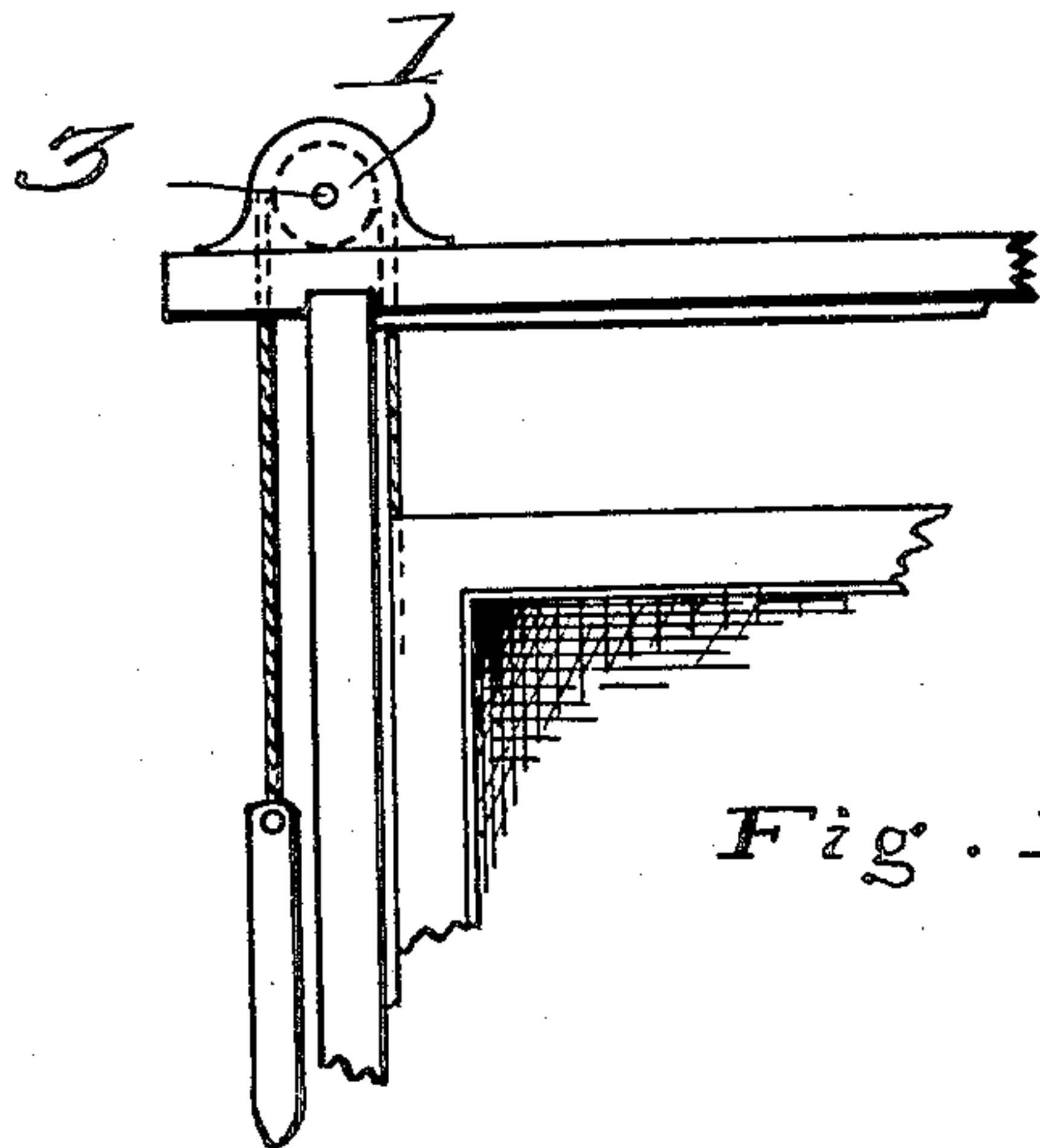


Fig. 1.

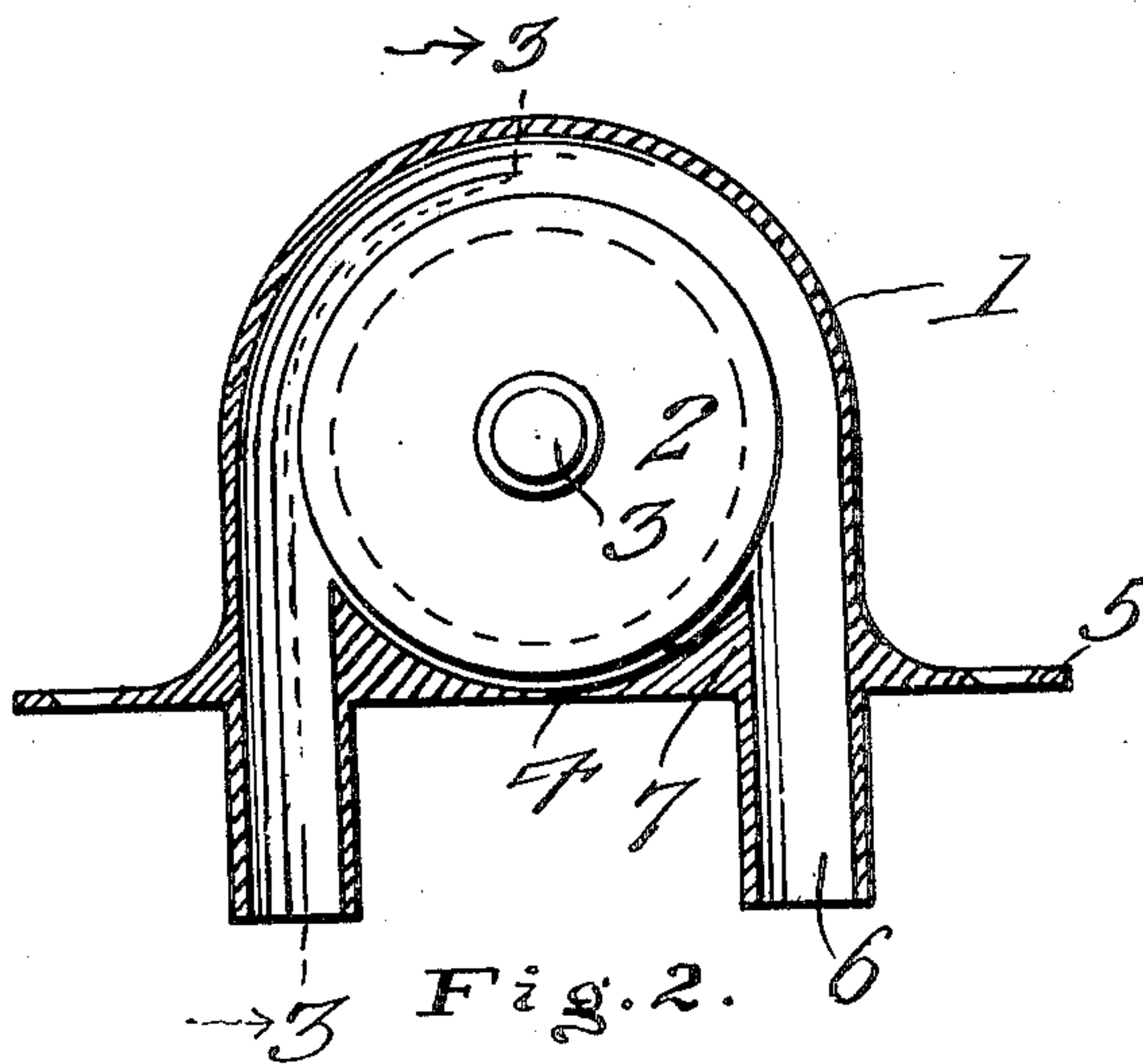


Fig. 2.

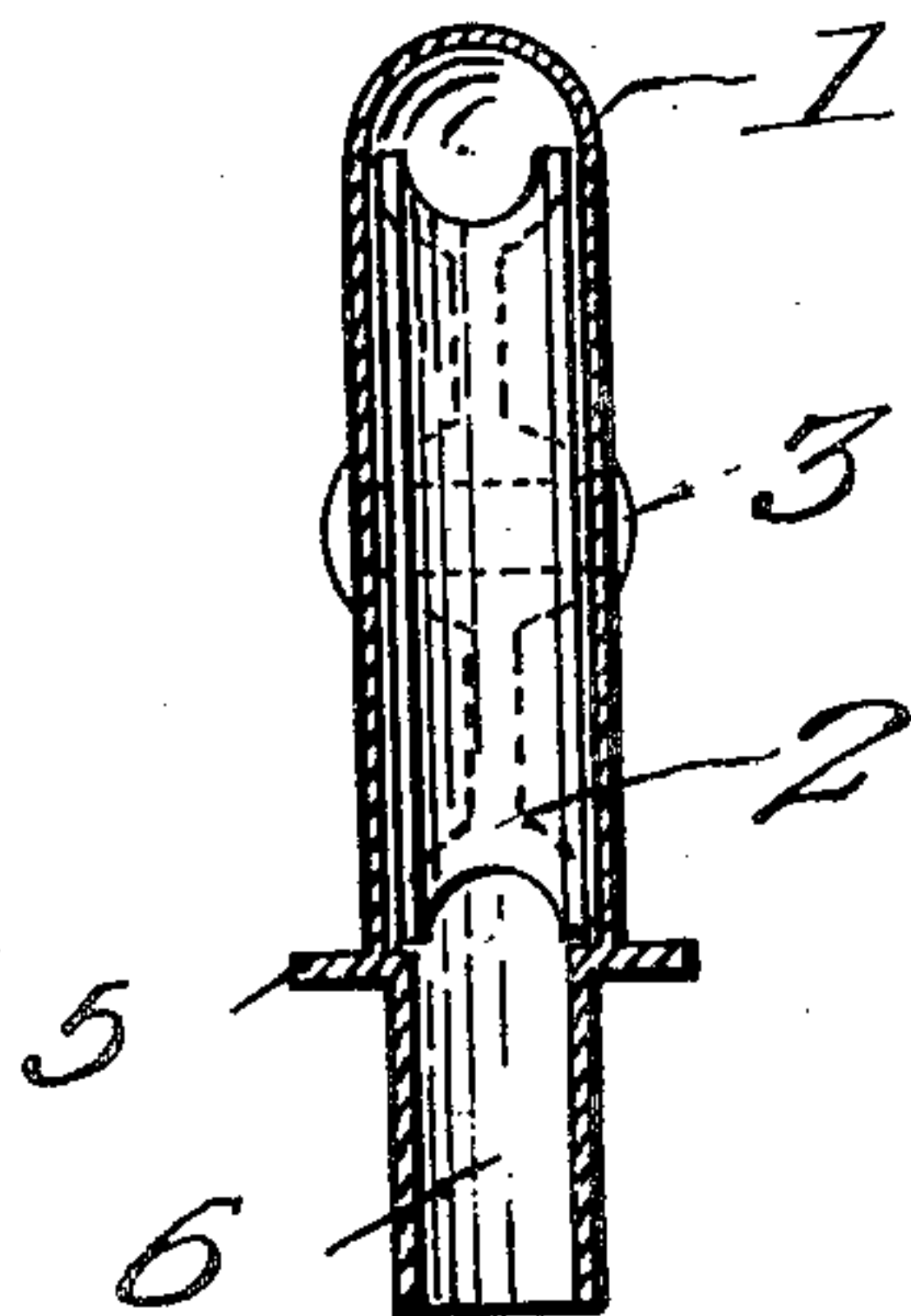


Fig. 3.

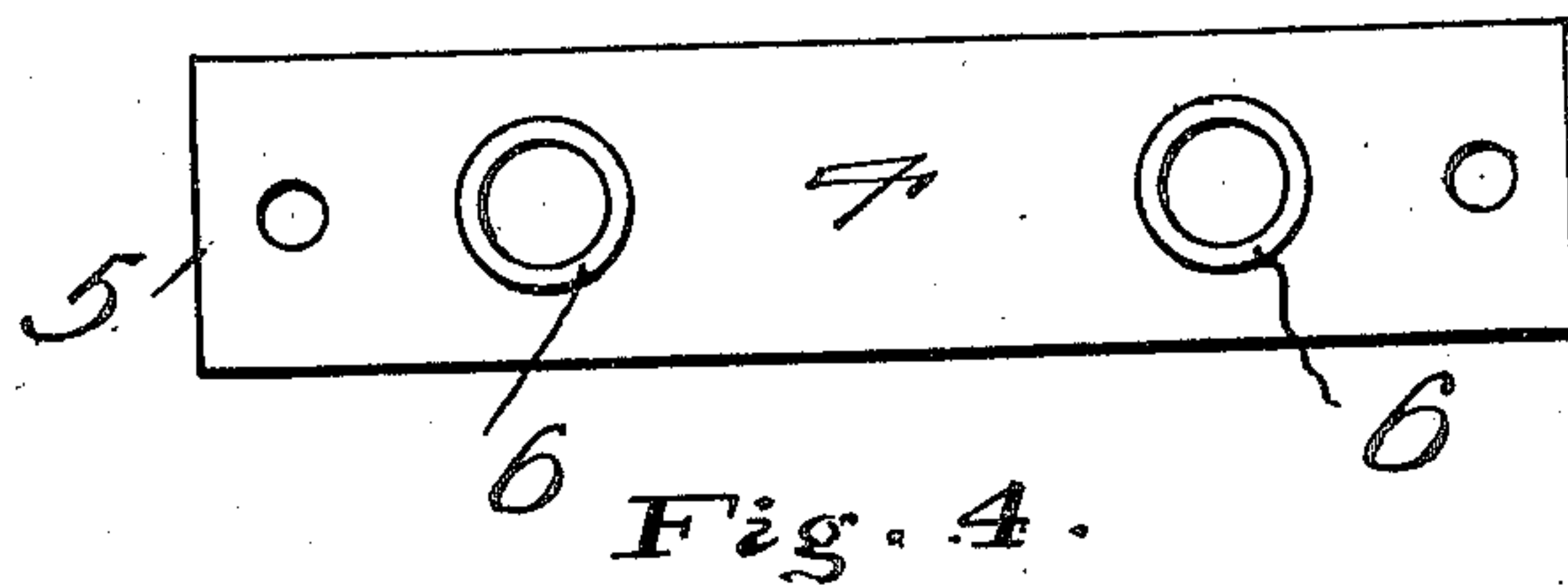


Fig. 4.

WITNESSES

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# UNITED STATES PATENT OFFICE.

MARION H. BALLEW AND REUBEN A. MEAD, OF LOS ANGELES, CALIFORNIA, ASSIGNORS OF ONE-THIRD TO ROBERT R. DIXON, OF LOS ANGELES, CALIFORNIA.

## SASH-PULLEY.

No. 818,335.

Specification of Letters Patent.

Patented April 17, 1906.

Application filed October 24, 1905. Serial No. 284,258.

*To all whom it may concern:*

Be it known that we, MARION H. BALLEW and REUBEN A. MEAD, citizens of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented new and useful Improvements in Sash-Pulleys, of which the following is a specification.

Our invention relates to sash-pulleys, and has for its object to provide a device of that character having downwardly-extended tubular guideways adapted to fit into holes in the window-frame provided for that purpose and serve as members for securing the sash-pulley in applied position.

Another object of our invention is to so apply the sash-pulley to the window-frame that the strain on the sides of the frame is equalized.

The invention consists in the construction, combination, and arrangement of parts more fully hereinafter described, claimed, and illustrated in the accompanying drawings, which disclose the preferred form of our invention, and in which—

Figure 1 is a view in front elevation of our sash-pulley in applied position. Fig. 2 is a central longitudinal sectional view of the pulley and casing. Fig. 3 is a section on the line 3 3 of Fig. 2 looking in the direction indicated by the arrow. Fig. 4 is a bottom plan view.

Referring to the drawings by reference-numerals, similar numerals designating the same parts in the different views, 1 is the casing or housing formed in oval or crown shape and made from two separate pieces welded or riveted together and provided with a base or bottom members 4 and laterally-extended flanges 5, having holes countersunk therein for the reception of screws or other means for securing the casing to the window-frame, said flanges 5 extending entirely around the casing. Between the sides of the casing 1 the pulley-wheel 2 of the usual structure is journaled to the shaft 3, which passes through the sides and is secured thereto by having its ends upset, said shaft likewise serving to hold the two parts of the casing in fixed position. Integral with the base-plate 4 and lo-

cated directly below either side of the pulley-wheel 2 are two downwardly-projected tubular members or guides 6 for the rope of the sash-pulley. In addition to being guides for the pulley-rope the tubular members 6 serve to aid the flanges 5 in keeping the casing 1 in erect position when it has been applied to the window-frame.

Many of the sash-rope pulleys now in use are at fault in that there is a tendency of the rope to buckle when the window is raised with any suddenness. This tendency we aim to obviate by having the bottom plate 4 of our pulley conform with the periphery of the pulley-wheel 2 and grooved at the ends to aline with the rope, thereby forming vertical flanges or rope-guards 7 on the under sides of the wheel and making one complete walled passage for the sash-rope.

From the foregoing description, taken in connection with the accompanying drawings, the construction and mode of operation of the invention will be understood without a further extended description.

Changes in the form, proportions, and minor details of construction may be made within the scope of the invention without departing from the spirit or sacrificing any of the advantages thereof.

Having thus described the invention, what we claim is—

1. In a device of the character set forth, a casing provided with tubular projecting guideways, a rope-guard and a pulley journaled in the sides of the casing, substantially as set forth.

2. In a device of the character set forth, a casing provided with tubular projecting guideways, rope-guards, flanges and a pulley journaled in the sides of the casing, substantially as set forth.

In witness that we claim the foregoing we have hereunto subscribed our names this 6th day of July, 1905.

MARION H. BALLEW.  
REUBEN A. MEAD.

Witnesses:

O. F. MARX,  
W. N. JENKINS.