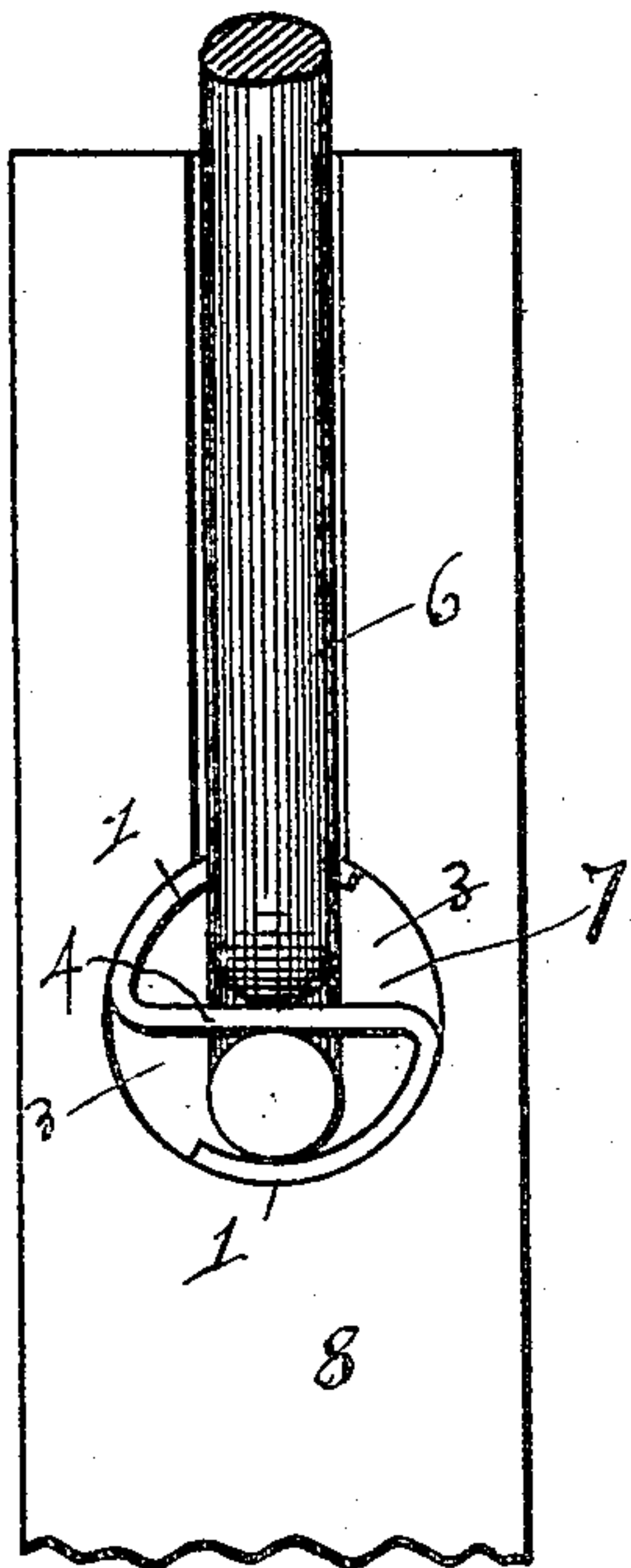


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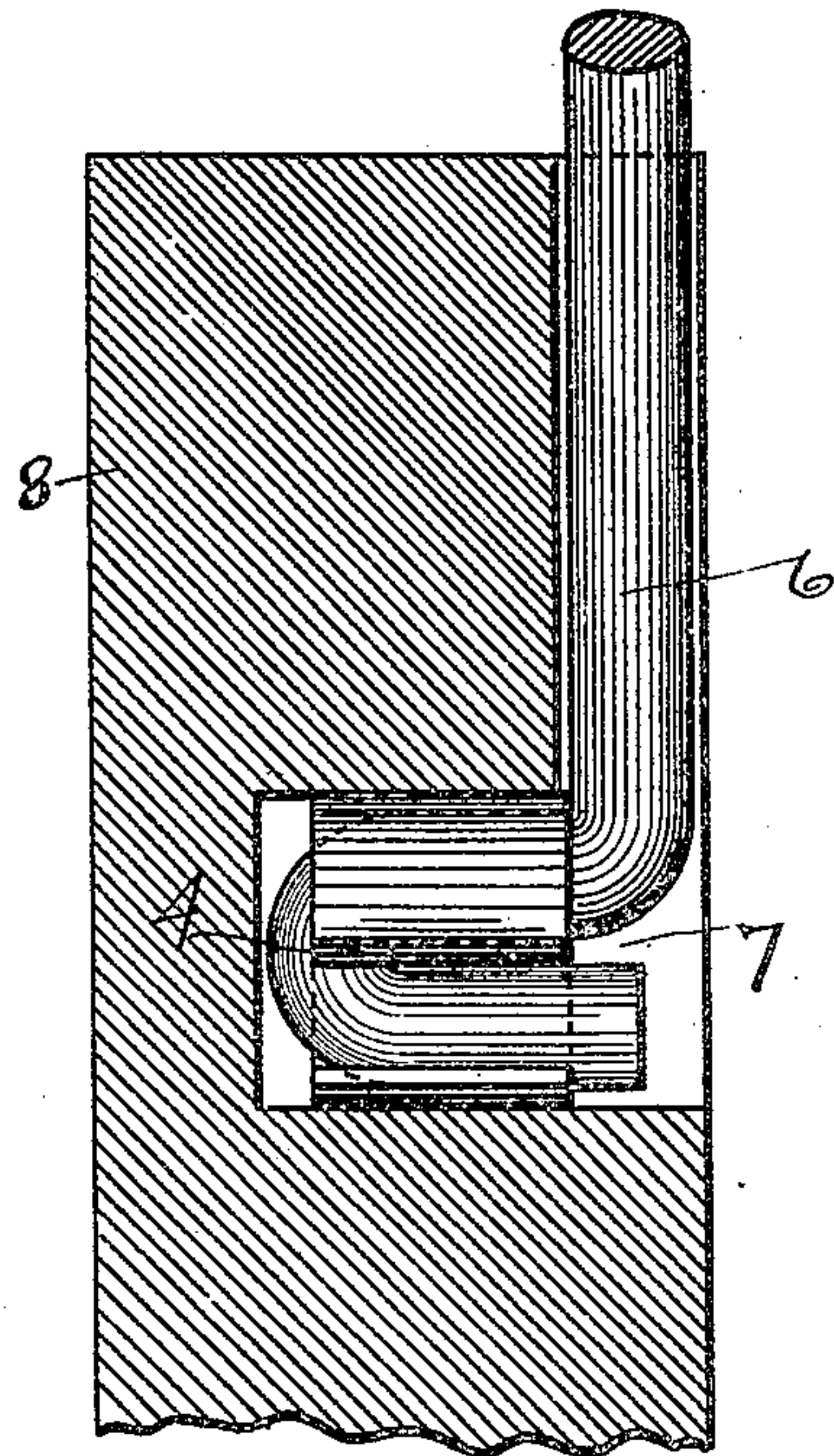
PATENTED MAR. 27, 1906.

C. J. WEINMAN.  
FASTENER FOR WINDOW SASH CORDS.

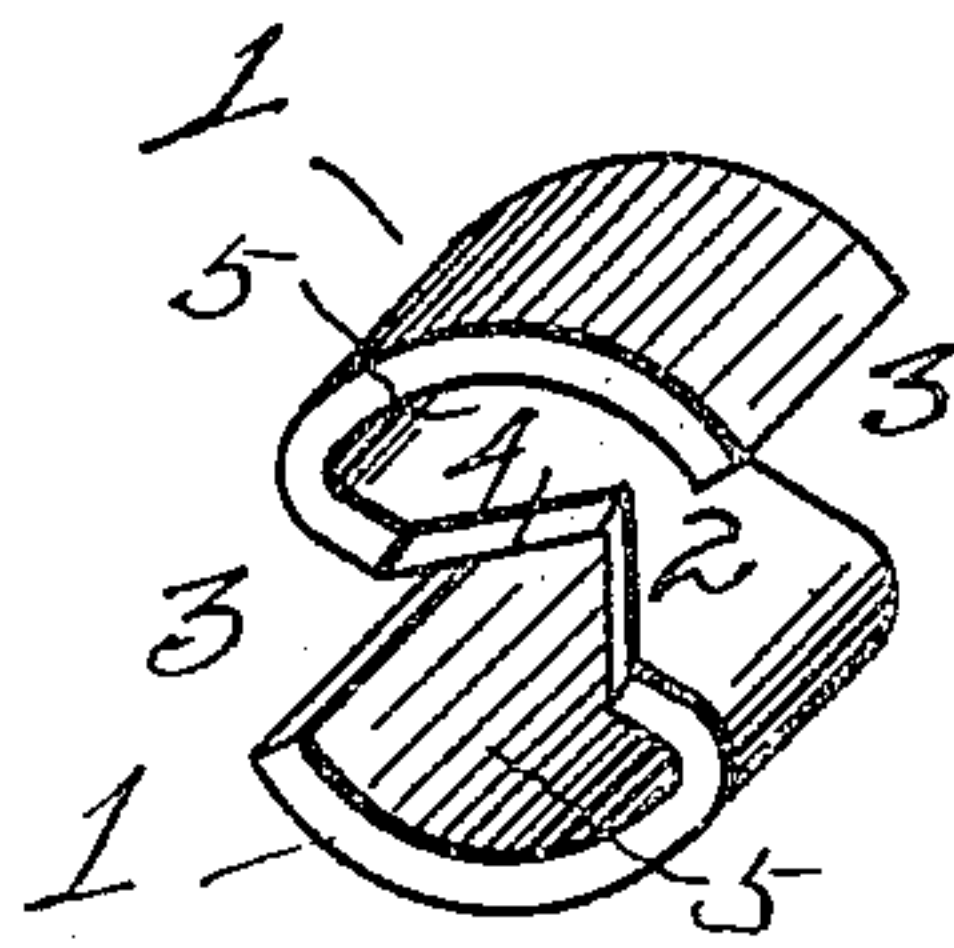
APPLICATION FILED DEC. 23, 1905.



-Fig-1-



-Fig-2-



-Fig-3-

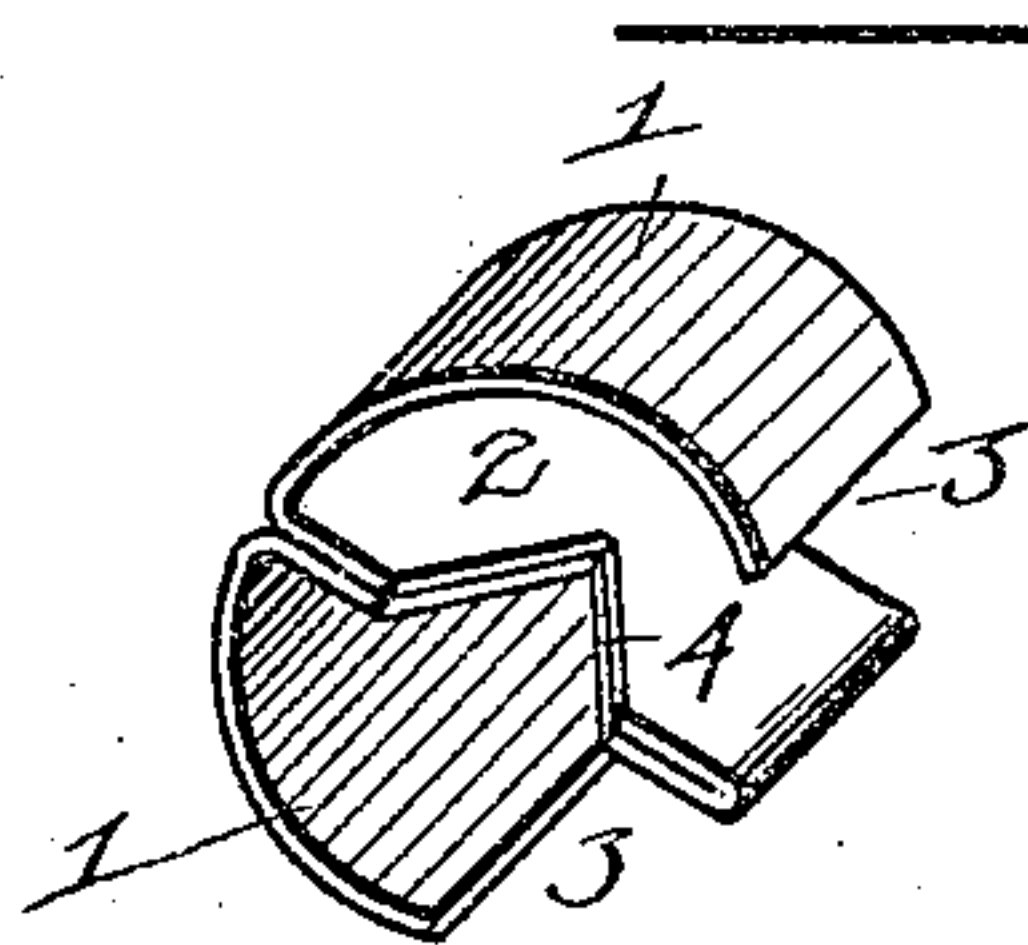


Fig. 4

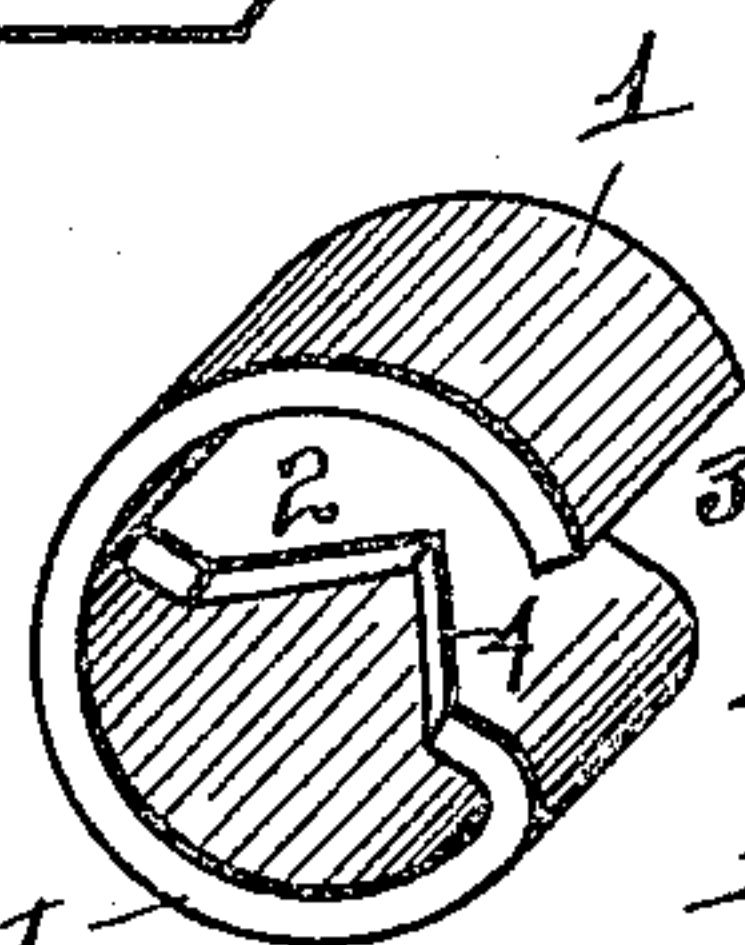


Fig. 5.

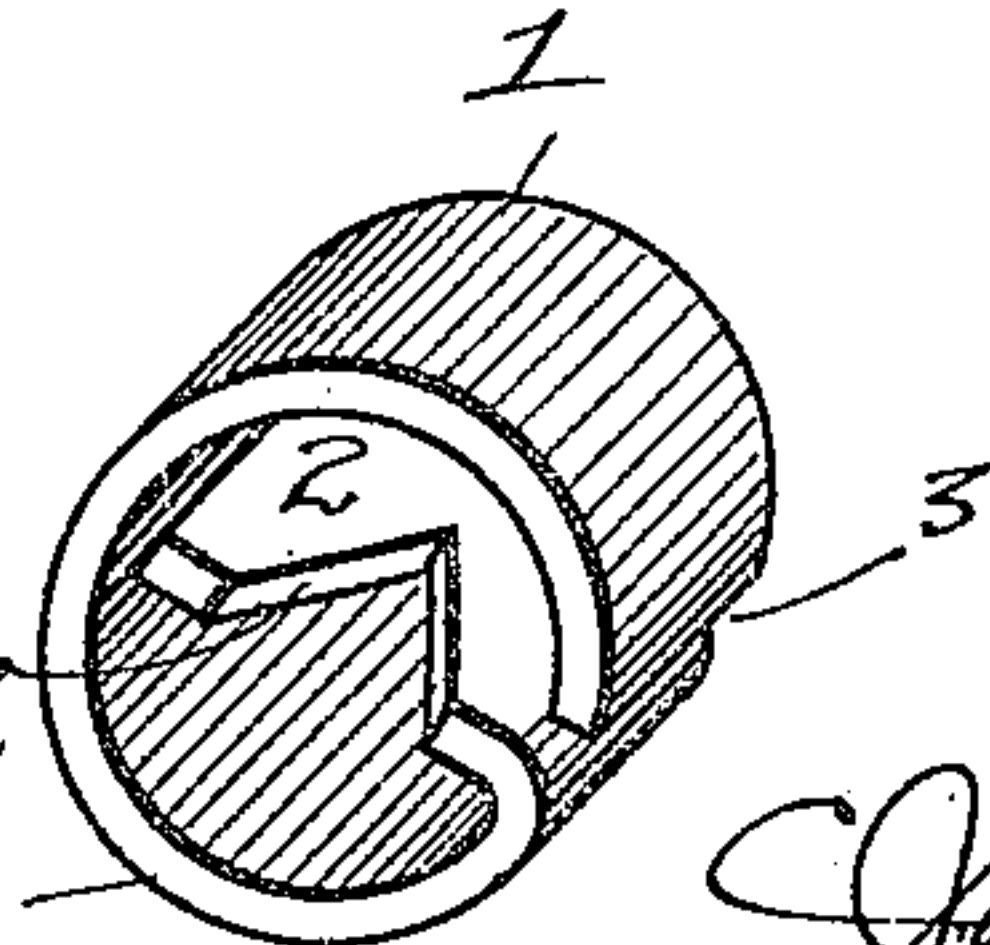


Fig. 6.

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# UNITED STATES PATENT OFFICE.

CHRISTIAN J. WEINMAN, OF DAYTON, OHIO.

## FASTENER FOR WINDOW-SASH CORDS.

No. 816,283.

Specification of Letters Patent.

Patented March 27, 1906.

Application filed December 23, 1905. Serial No. 293,071.

*To all whom it may concern:*

Be it known that I, CHRISTIAN J. WEINMAN, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Fasteners for Window-Sash Cords; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

This invention relates to improvements in sash-cord fasteners for window-sashes.

The object of the invention is to provide a fastener for joining the sash-cords to window-sashes in a manner that obviates the necessity of knotting the cord and by means of which a most durable connection is effected between the window-sash and the cord.

The fastener, to this end, consists of sheet metal which is so bent as to provide a central wall throughout its length and two parallel side walls, with intervening spaces between the central wall and the side wall.

In the drawings several modifications are shown; but each of such modifications possesses the structural characteristics above indicated.

Preceding a more detailed description of the invention, reference is made to the accompanying drawings, of which—

Figure 1 is a view illustrating the outer edge or side of a window-sash, showing my improved sash-cord fastener in position. Fig. 2 is a vertical sectional view of the adjacent portion of the window-sash with my improved fastener therein. Fig. 3 is a view of the fastener as shown in Figs. 1 and 2. Figs. 4, 5, and 6 are views of the sash-cord fastener with slight modifications.

In a detail description of the invention similar reference characters indicate corresponding parts.

The fastener, whether made according to any of the modifications illustrated in the drawings, is constructed out of sheet metal to provide two outer rounded sides 1 1, with an intermediate wall 2, providing between said outer sides or walls 1 and said inner wall 2 spaces 5, through which the sash-cord 6 passes. The said walls 1 and 2 are of uniform lengths.

The inner wall 2 has a suitable notch 4 extend-

ing from one edge, which receives the sash-cord 6 in passing said sash-cord from one space 5 to the other and grips said cord to prevent it from slipping. There is thus an abrupt bend in the sash-cord in passing around the intermediate wall 2, which serves to securely lock said sash-cord in the fastener. For example, when the sash-cord is bent into a position to occupy the spaces between the outer and inner walls of the fastener the said walls serve to hold the sash-cord rigidly in position and against any strain exerted on said cord due to the movements of the sash. The notch in the intermediate wall receives the cord when passed through one space to the other and serves to rigidly hold the cord against slipping.

As the fastener is constructed in Fig. 3, the entrances 3 are at opposite sides of the same, these entrances being provided for the passage of the cord into position, as shown in Figs. 1 and 2.

The modification, as shown in Fig. 4, is substantially the same as that in Fig. 3, in that it provides the two outer walls 1 1 and the inner wall 2 with the notch 3; but the metal is so formed as to provide the two entering spaces 3 for the sash-cord 6 on one side of the fastener. The modifications shown in Figs. 5 and 6 are also the same, in that they provide the two outer walls 1 1 with the inner wall 2 and notch 4; but in this construction there is only one entrance 3 to the device, the formation of the fastener being constructed so as to provide but a single side entrance 3 for the sash-cord. In placing the sash-cord in this fastener the end of the cord is inserted through the end of the fastener and then the sash-cord is carried inwardly on the other side of the wall 2 through the side entrance 3. So far as the facility with which the cord may be inserted in the fastener is concerned these various modifications are equal. I therefore do not wish to limit myself to any particular form of construction.

When the fastener is united to the end of the sash-cord, it is placed in a recess 7 in the window-sash 8 and is thence carried upwardly around the usual pulley and is connected with the usual sash-weight, which parts are old and well-known features and require no illustration or further reference. It may be stated that the usual knot on the end of the sash-cord is dispensed with, owing to the various shoulders formed by the walls of

the fastener acting as a means to rigidly hold the sash-cord from slipping in the fastener.

Having described my invention, I claim—

In a fastener for window-sash cords, a  
5 member consisting of two outer curved walls and an intermediate wall, said walls being of uniform lengths and providing inclosed spaces for looping the sash-cord, the intermediate wall having a notch in one end thereof to re-

ceive and grip the sash-cord at the bend 10 thereof, substantially as specified.

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

CHRISTIAN J. WEINMAN.

Witnesses:

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