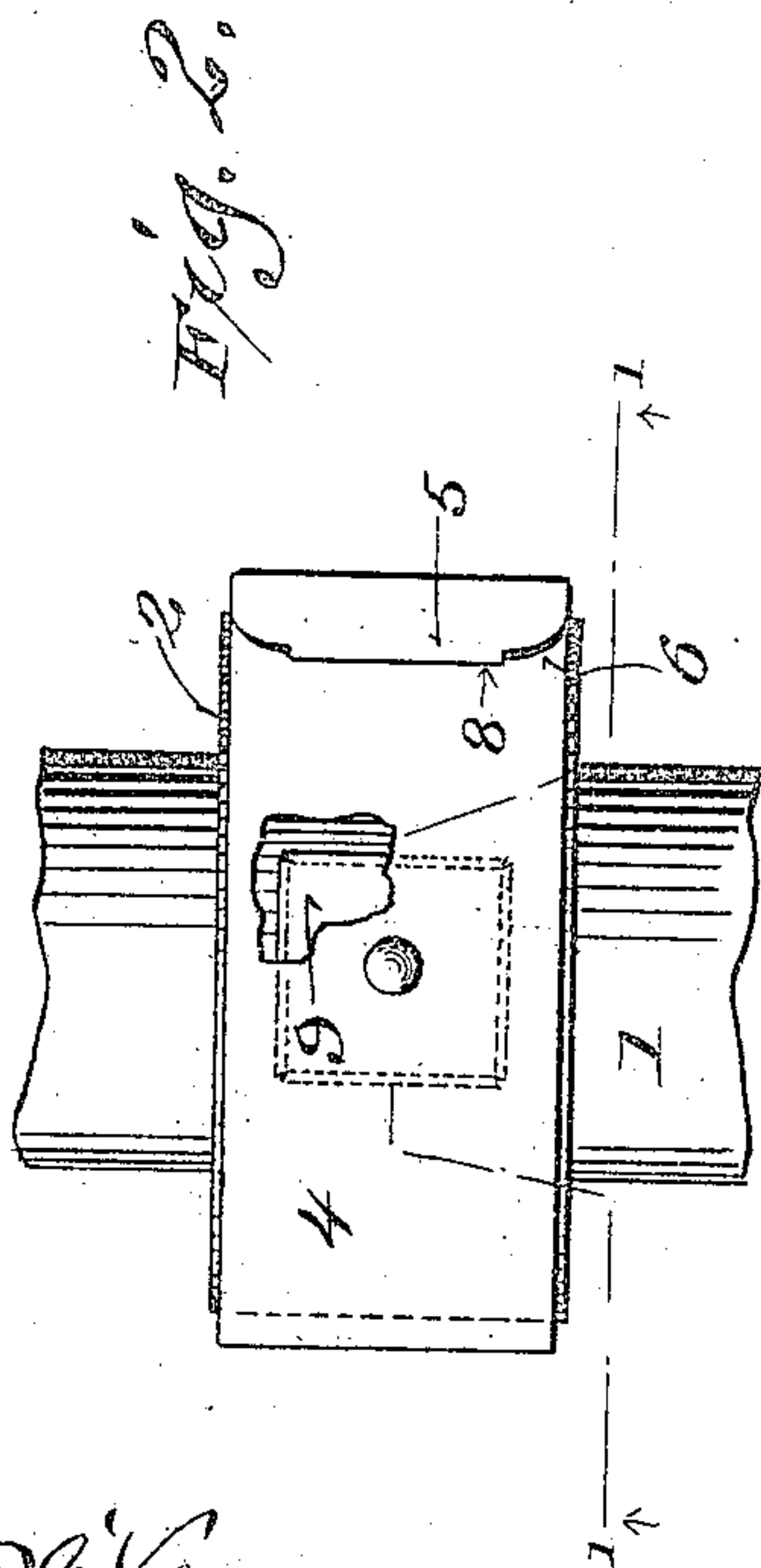


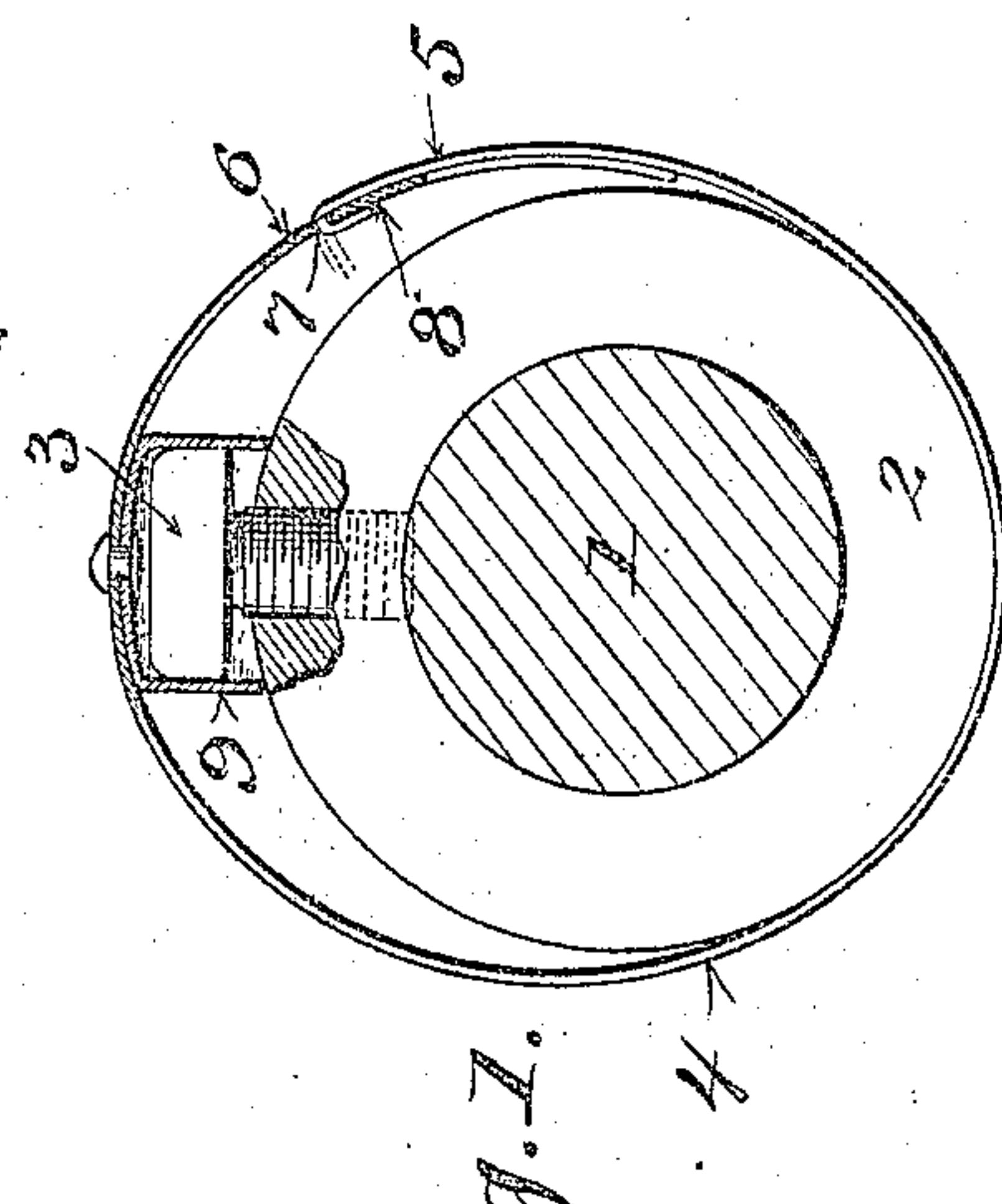
W. H. ACKERMANN.  
 GUARD FOR SET SCREWS.  
 APPLICATION FILED JUNE 10, 1907.

945,834.

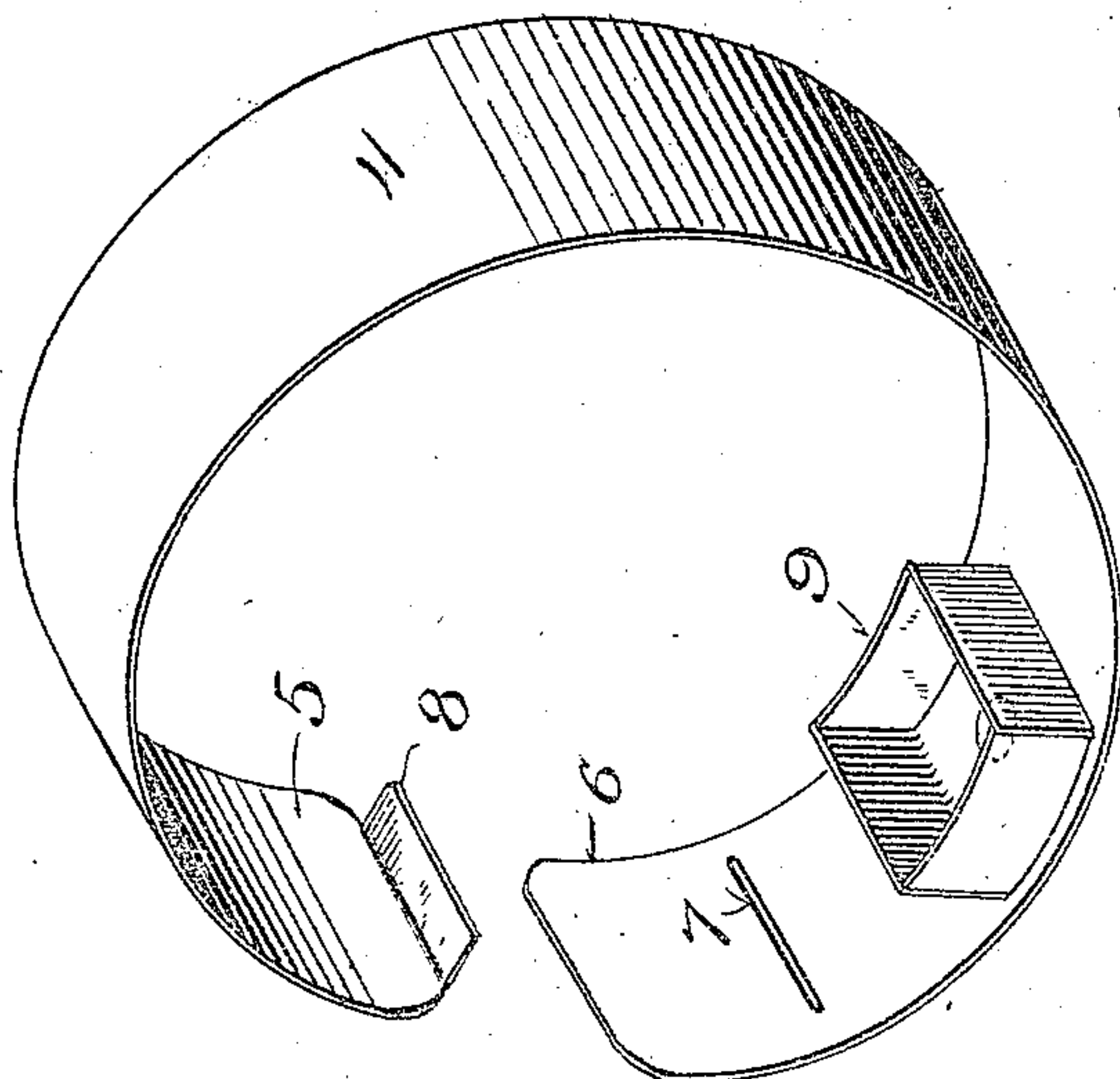
Patented Jan. 11, 1910.



*Fig. 2.*



*Fig. 1.*



*Fig. 3.*

Witnesses  
 Fred Palm  
 George Felber

Inventor:  
 William H. Ackermann.  
 By *Clifton Young*  
 Attorneys.



# UNITED STATES PATENT OFFICE.

WILLIAM H. ACKERMANN, OF SHEBOYGAN, WISCONSIN, ASSIGNOR OF ONE-HALF TO  
HERMAN SCHREIER, OF SHEBOYGAN, WISCONSIN.

## GUARD FOR SET-SCREWS.

945,834.

Specification of Letters Patent.

Patented Jan. 11, 1910.

Application filed June 10, 1907. Serial No. 378,065.

*To all whom it may concern:*

Be it known that I, WILLIAM H. ACKERMANN, a citizen of the United States, and resident of Sheboygan, in the county of Sheboygan and State of Wisconsin, have invented certain new and useful Improvements in Guards for Set-Screws or the Like; and I do hereby declare that the following is a full, clear, and exact description thereof.

The object of my invention is to provide a simple and effective set-screw guard for shafting or the like, its construction and arrangement being such that it can readily be attached to a collar, hub or shank of any device that is necessarily secured to a revolving spindle or shaft, the guard serving as a protection against accidents caused through the clothing of persons being caught in projecting set-screws of machinery at which they are employed, said accidents being quite common even though great caution is used.

The invention therefore consists in certain peculiarities of construction and combination of parts as hereinafter fully described with reference to the accompanying drawings and subsequently claimed.

In the drawings: Figure 1 represents an elevation of a shaft and collar secured thereto by a set-screw, together with an attached guard embodying the features of my invention, the view being partly broken away and in section, as indicated by line 1—1 of Fig. 2; Fig. 2, a plan view of same with parts broken away, and Fig. 3, a perspective view of the guard detached.

Referring by numerals to the drawings, 1 indicates a shaft, 2 a collar and 3 a set-screw for the same. A flexible metallic-band 4 is fitted over the collar and set-screw having overlapping ends 5 and 6, the inner end 6 being provided with a slot 7 for the reception of a tongue 8, which tongue forms an extension of the outer band end 5, and is, after being inserted into the slot, bent down as shown, by any suitable tool to interlock said ends. A rectangular pocket 9 is riveted to the inner face of the band and arranged to incase the set-screw 3, the pocket also serving to prevent displacement of said band by the screw-head projection which rests therein. The said pocket 9 is constructed from a single metal blank, which is primarily in the form of a cross. The radially

disposed arms of the cross are bent upward from a base-portion to constitute side-walls of the aforesaid pocket, the bottom or base-portion of which pocket is riveted to the band, as shown. By constructing the pocket 9 as above described, the cross-ends which are normally in the flat, may be bent down more or less so as to snugly fit the faces of the bolt or screw-head as shown, the ends being bent at a point so that they will form a pocket that will snugly fit the head to which it is adjusted. Thus it will be seen that the pocket may be made to conform to bolt-heads of different dimensions and will thereby serve as locks preventing the bolt or set-screw from loosening or turning when the shaft is in motion.

As best shown in Fig. 1, when the guard is adjusted to the set-screw it forms an unbroken circular cover around the shaft, there being no projecting points or corners to catch into the clothing of a person who might accidentally contact with said guard. In practice, the guard-bands may be made of different lengths to fit various standard diameters or of a uniform length, in which case the band after being bent around the collar or hub, would have either the slot or tongue end thereof cut to fit the required diameter.

I claim:

A guard for bolt-heads, set-screws or the like, comprising a flexible band having overlapping ends, a slot in the end of the inner-lapped band-end, an interlocking inturned tongue for the slot at the overlapped band-end, the inturned tongue being reduced in width relative to the band; in combination with a pocket comprising a primarily cross-like blank having a base-portion in riveted-connection with the band, the cross-arms of the blank constituting side-walls of the pocket adapted to be bent downwardly from the base-portion to conform to faces of the bolt-head, whereby the same is held against movement.

In testimony that I claim the foregoing I have hereunto set my hand at Sheboygan in the county of Sheboygan and State of Wisconsin in the presence of two witnesses.

WILLIAM H. ACKERMANN.

Witnesses:

AL. P. STEFFEN,  
MAX MEYER.