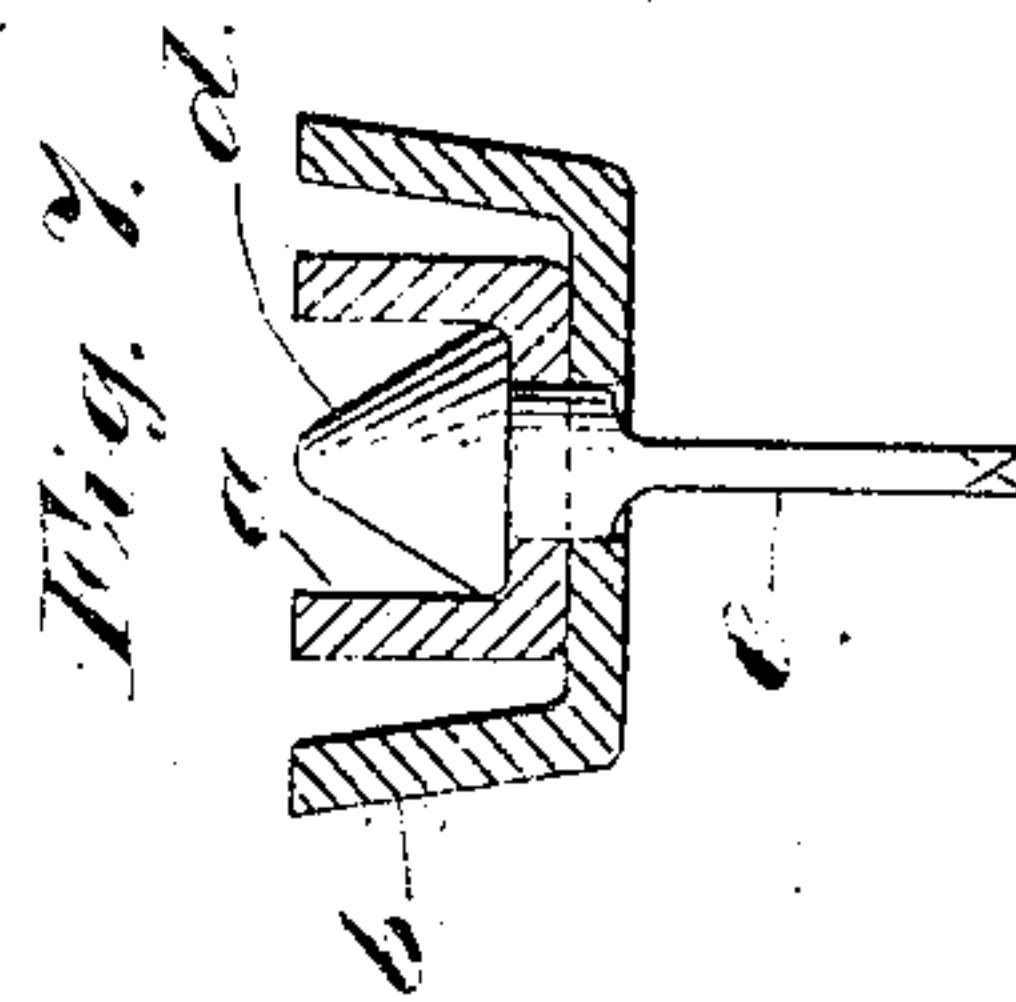
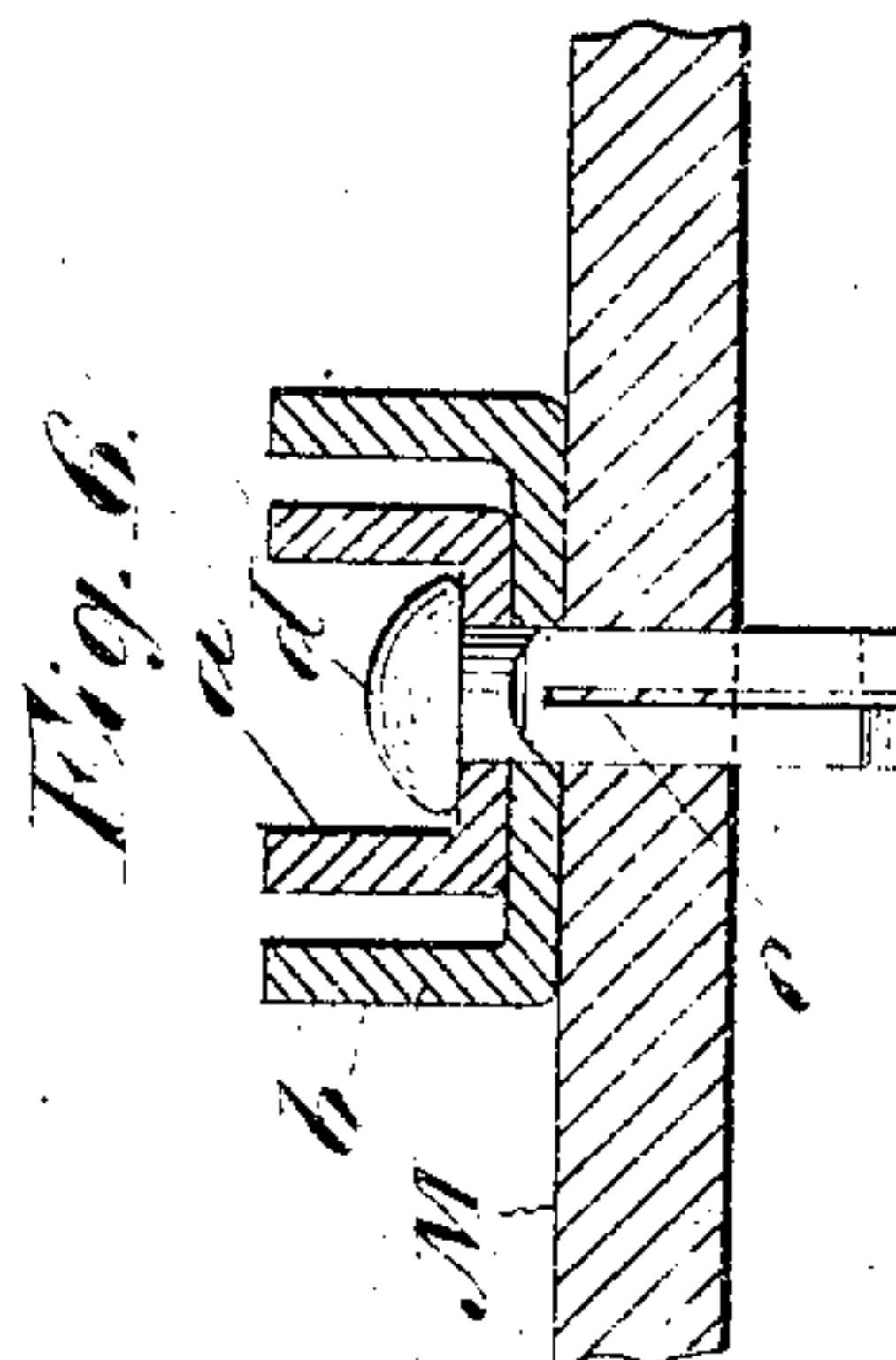
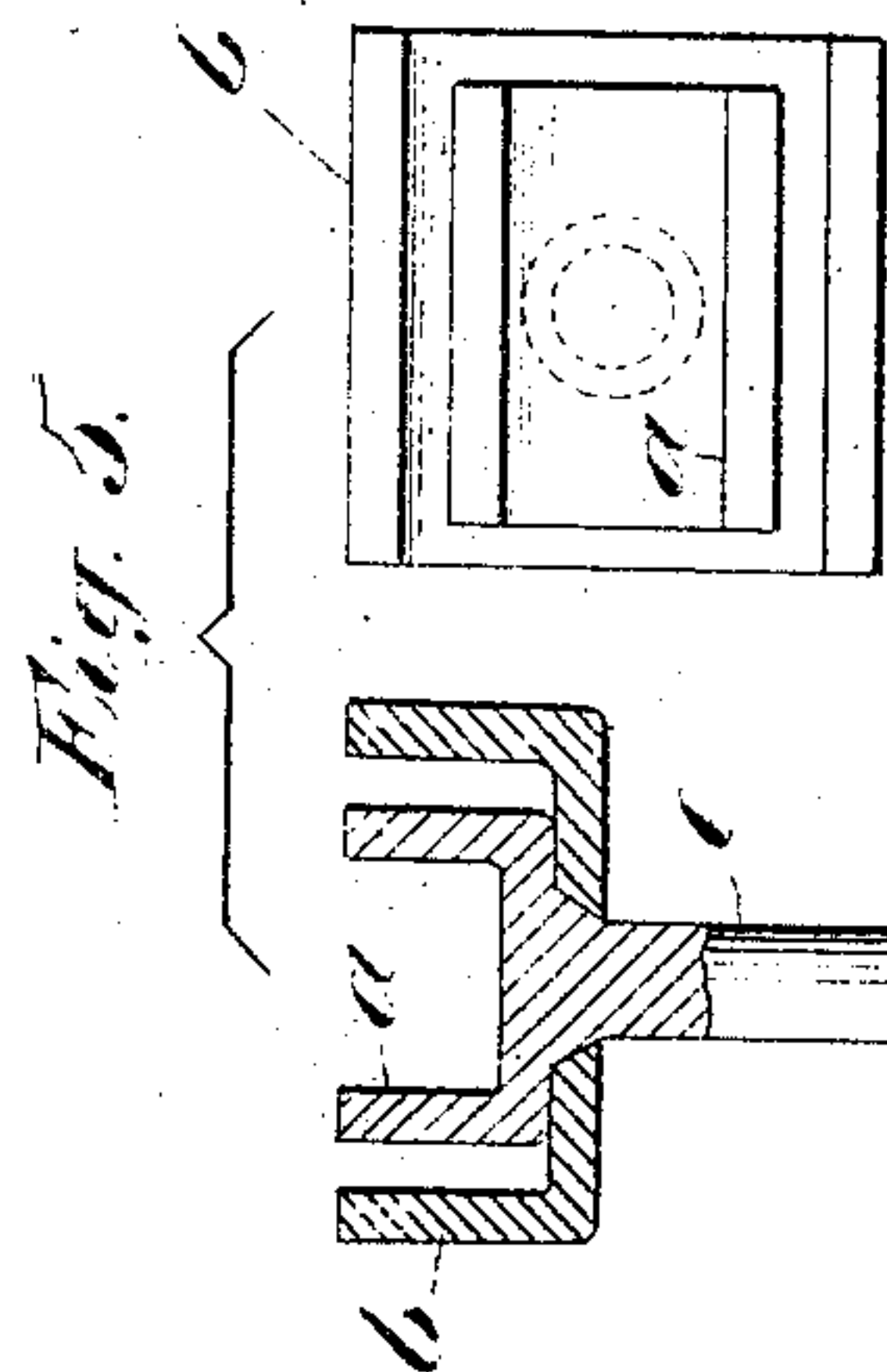
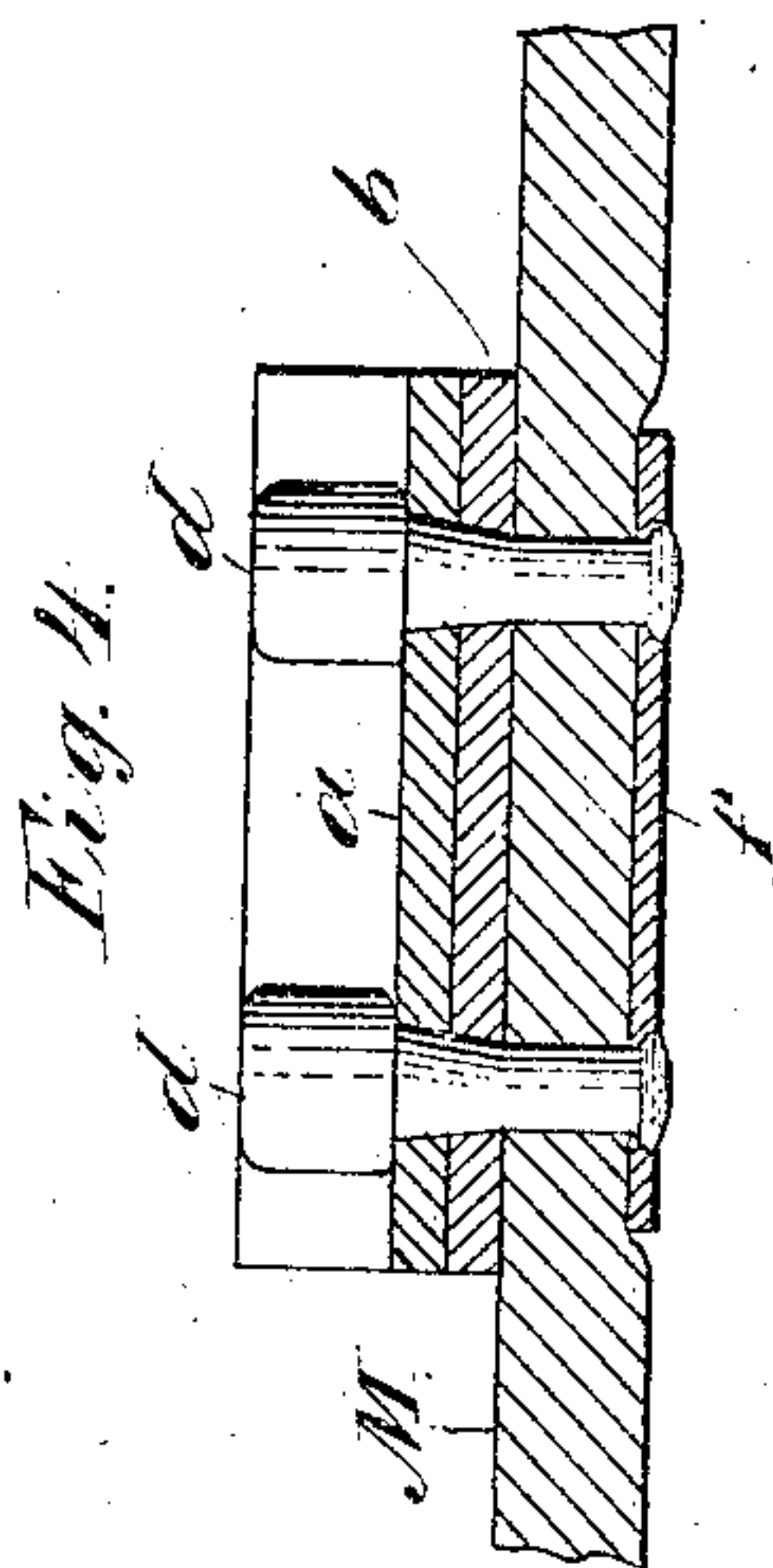
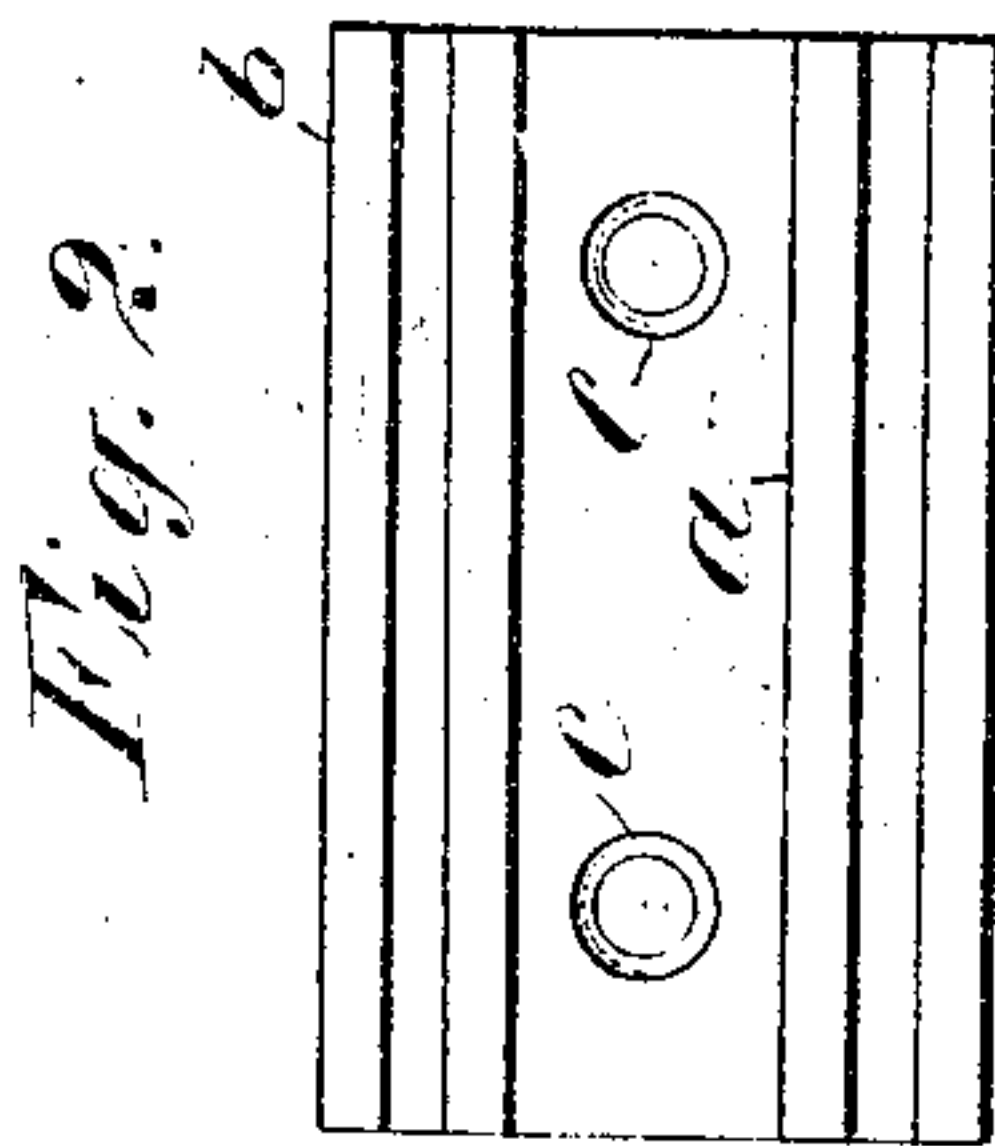
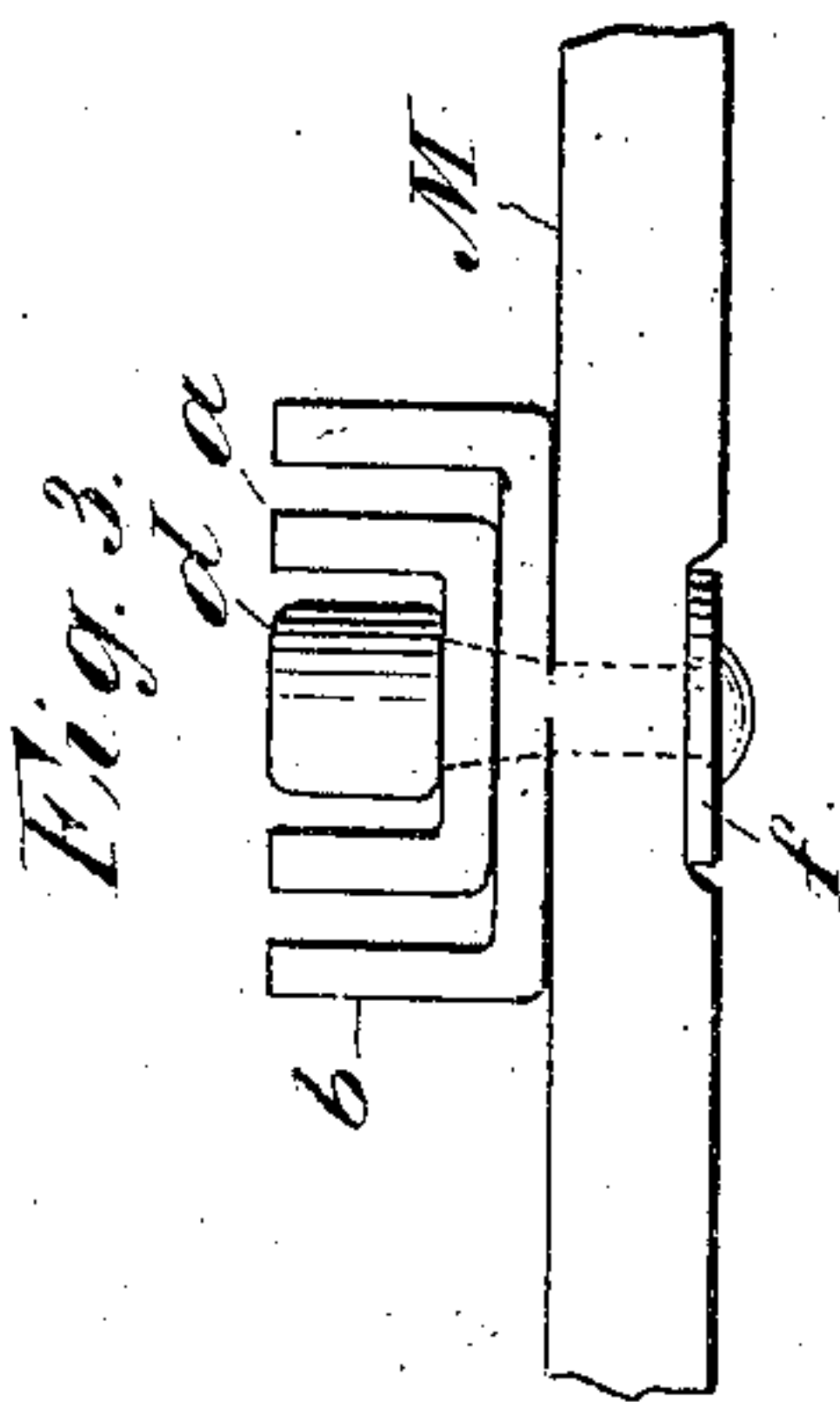
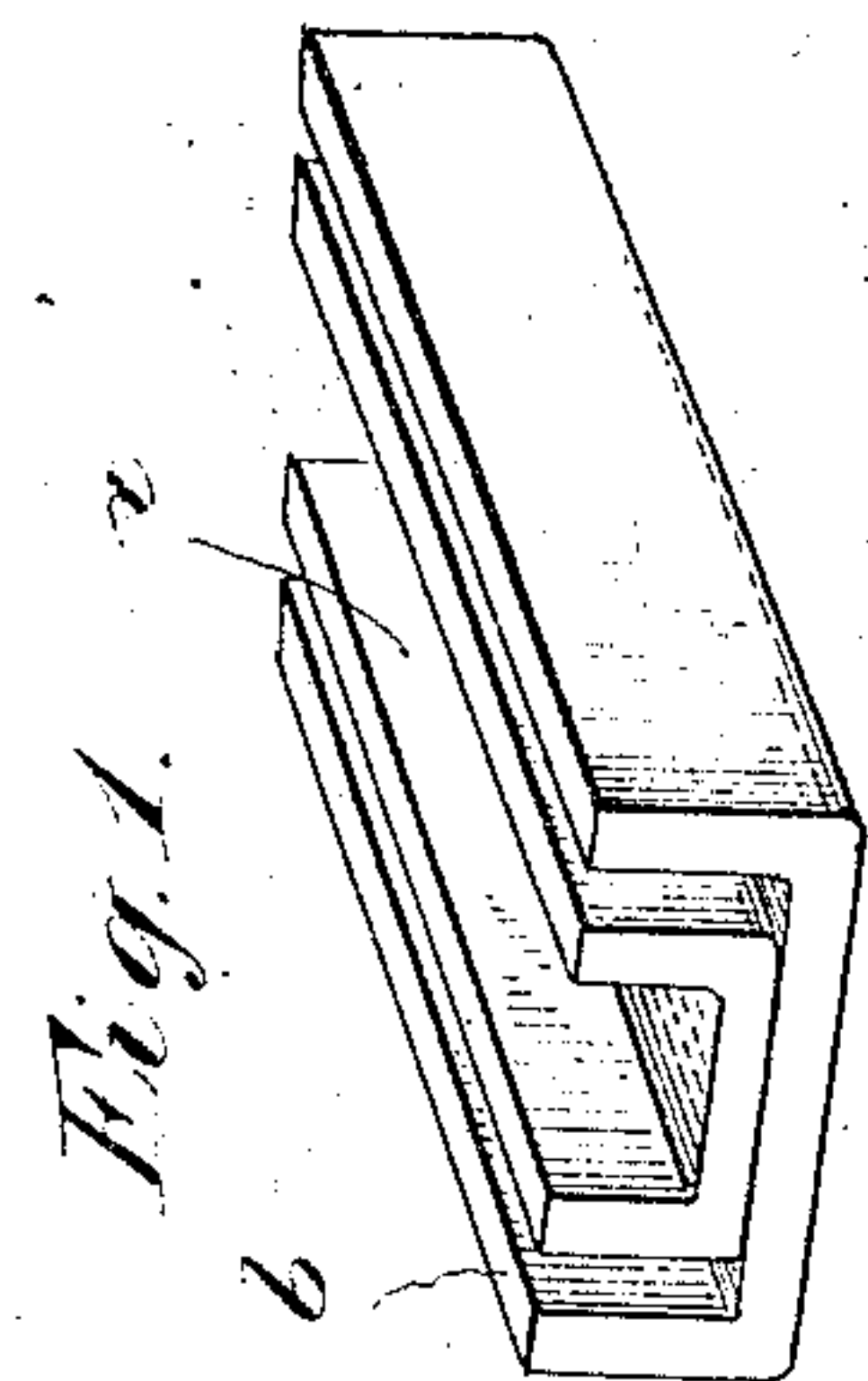


No. 863,331.

PATENTED AUG. 13, 1907.

E. B. STIMPSON.
ANTISKIDDING DEVICE.
APPLICATION FILED DEC. 27, 1906.



Witnesses
S. M. Wiman
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Edwin Ross Stimpson
Inventor
By *his Attorney* *Harry Conville*

UNITED STATES PATENT OFFICE.

EDWIN BALL STIMPSON, OF NEW YORK, N. Y.

ANTISKIDDING DEVICE.

No. 883,331.

Specification of Letters Patent.

Patented Aug. 13, 1907.

Application filed December 27, 1906. Serial No. 349,610.

To all whom it may concern:

Be it known that I, EDWIN BALL STIMPSON, a citizen of the United States, residing in the borough of Brooklyn, county of Kings, city and State of New York, have invented certain new and useful Improvements in Antiskidding Devices, of which the following is a specification.

This invention relates to anti-skidding metal devices of the class commonly employed in or on tires for auto-vehicles; and the purpose of the invention is to provide a device consisting of a nest of wearing devices of hard metal—preferably hard steel—each having a trough-like form and the inner one fitting loosely into the outer; and a stud or studs for securing the said wearing devices to the material, said stud having a head which rests within the inner trough, and a shank which passes through holes in the bottom of the troughs.

This device serves not alone as an anti-skidder but as a protector and a means for preventing slipping in braking.

In the accompanying drawing, which illustrates an embodiment of the invention—Figure 1 is a perspective view of the double-trough wearing device. Fig. 2 is a plan of the same showing the holes for the shanks of the securing studs. Fig. 3 is an end-view, showing the device secured to the material. Fig. 4 is a longitudinal section of the device as seen in Fig. 3. Fig. 5 shows a cross-section and plan of a form of the device where the riveting shank of the stud is integral with the inner trough; and Fig. 6 shows a globular headed, split rivet employed as the securing means. Fig. 7 shows a split rivet with a conical head, and a sectional outer trough with flaring sides.

The trough-like wearing device comprises two or more nested troughs (preferably only two), the inner trough *a* nesting loosely in the outer trough *v*. These troughs will preferably be about even at their upper edges; will have holes *c* in their bottoms (Fig. 2) to receive the securing devices, and will be of hard steel,

so as to resist wear and bending and maintain relatively sharp upper margins so that the device may have a plurality of sharp edges to bite into the roadway. By loosely nesting, as applied to the troughs, is meant that the upright flanges of the inner troughs are separated by a space from the adjacent flanges of the outer troughs. This produces the plurality of sharp edges referred to above.

In Figs. 3 and 4 the securing studs are shown as set and riveted in the material *M*. Each stud has a head *d*, which rests and bears on the bottom of the inner trough and its shank *e* extends through the holes *c*, the material *M*, a washer *f* at the back of the latter, and is then riveted down on the said washer.

Fig. 5 shows a construction wherein the stud has its shank *e* formed integrally with the inner trough *a*. In this case the trough itself forms the head of the stud. In this case also if the inner trough is to be hardened, the shank *e* should have its temper drawn so as to give it sufficient malleability to rivet down or clench.

Figs. 6 and 7 show split rivets or rivets with slitted shanks for clenching, and Fig. 7 shows the outer trough having slightly inclined and flaring sides.

Having thus described my invention, I claim—

1. A device for the purpose specified, having a plurality of nested, trough-like wearing devices, of hard metal, the upright flanges of the same being separated as set forth, and means for securing them to a material or fabric.

2. A device for the purpose specified, comprising a plurality of loosely nested, trough-like wearing devices with registering apertures in their bottoms, said wearing devices being of hard steel with upturned and separated margins, and headed rivets for securing the said nested devices.

In witness whereof I have hereunto signed my name this 24th day of Dec. 1906, in the presence of two subscribing witnesses.

EDWIN BALL STIMPSON.

Witnesses:

H. G. HOSE,

WILLIAM J. FIRTH.