

No. 737,112.

PATENTED AUG. 25, 1903.

S. JONES.
PLANE BIT.

APPLICATION FILED JAN. 9, 1903.

NO MODEL.

Fig. 1.

Fig. 2.

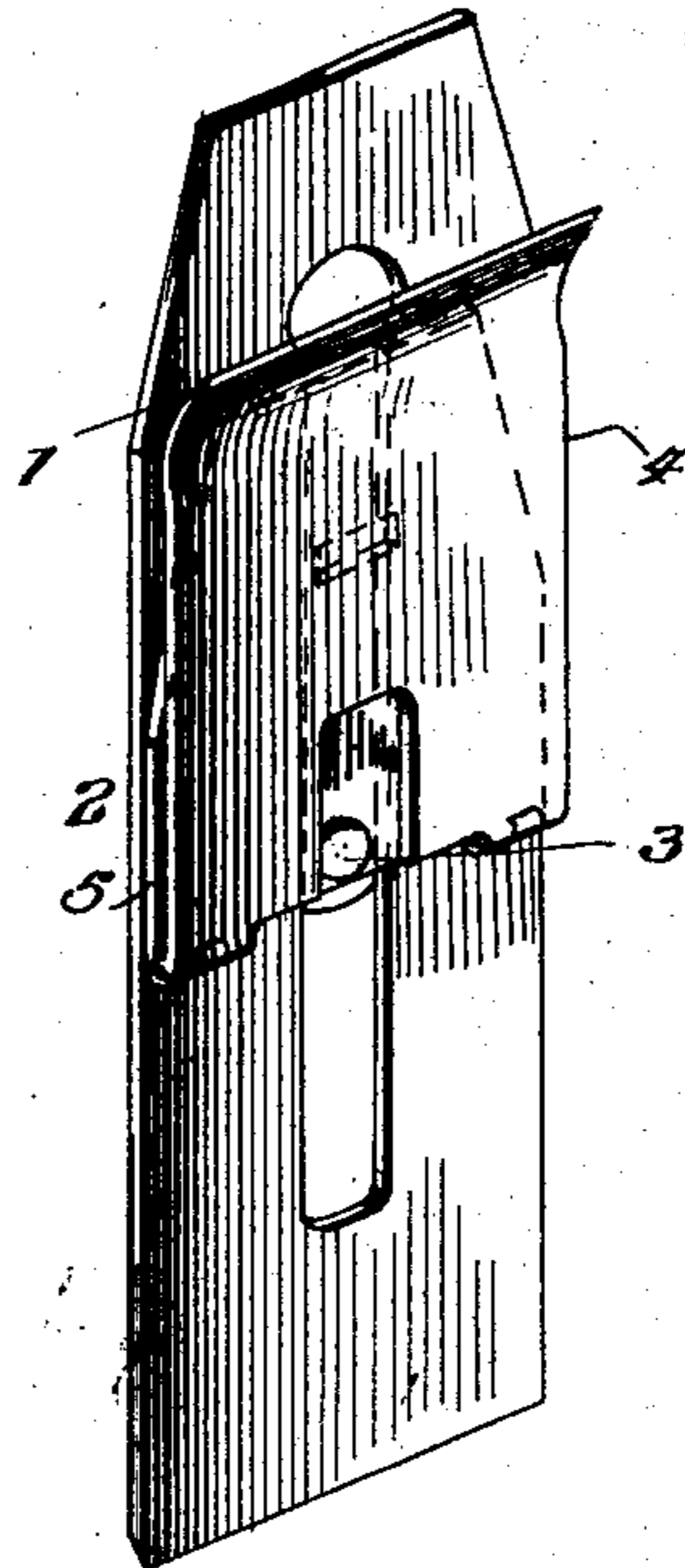
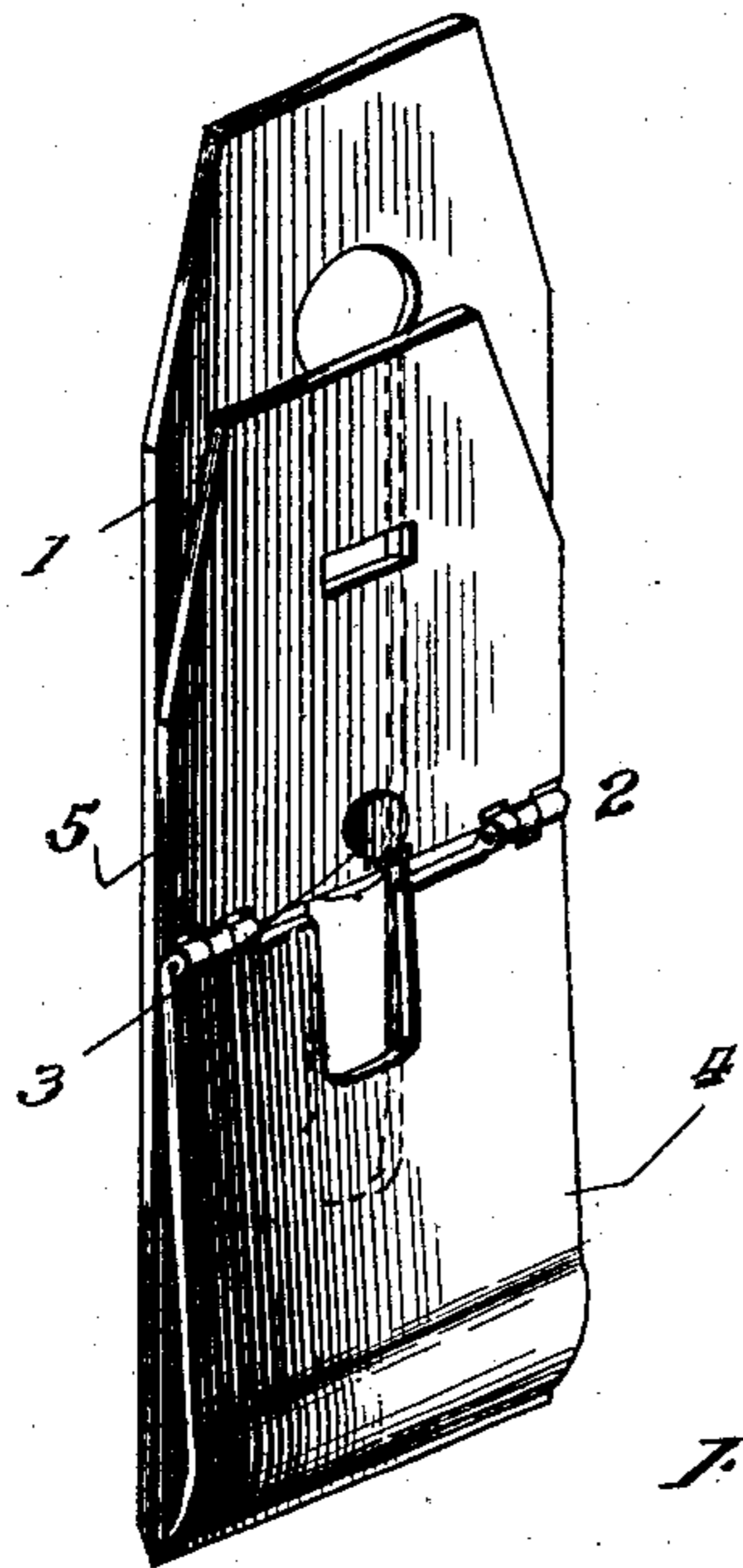
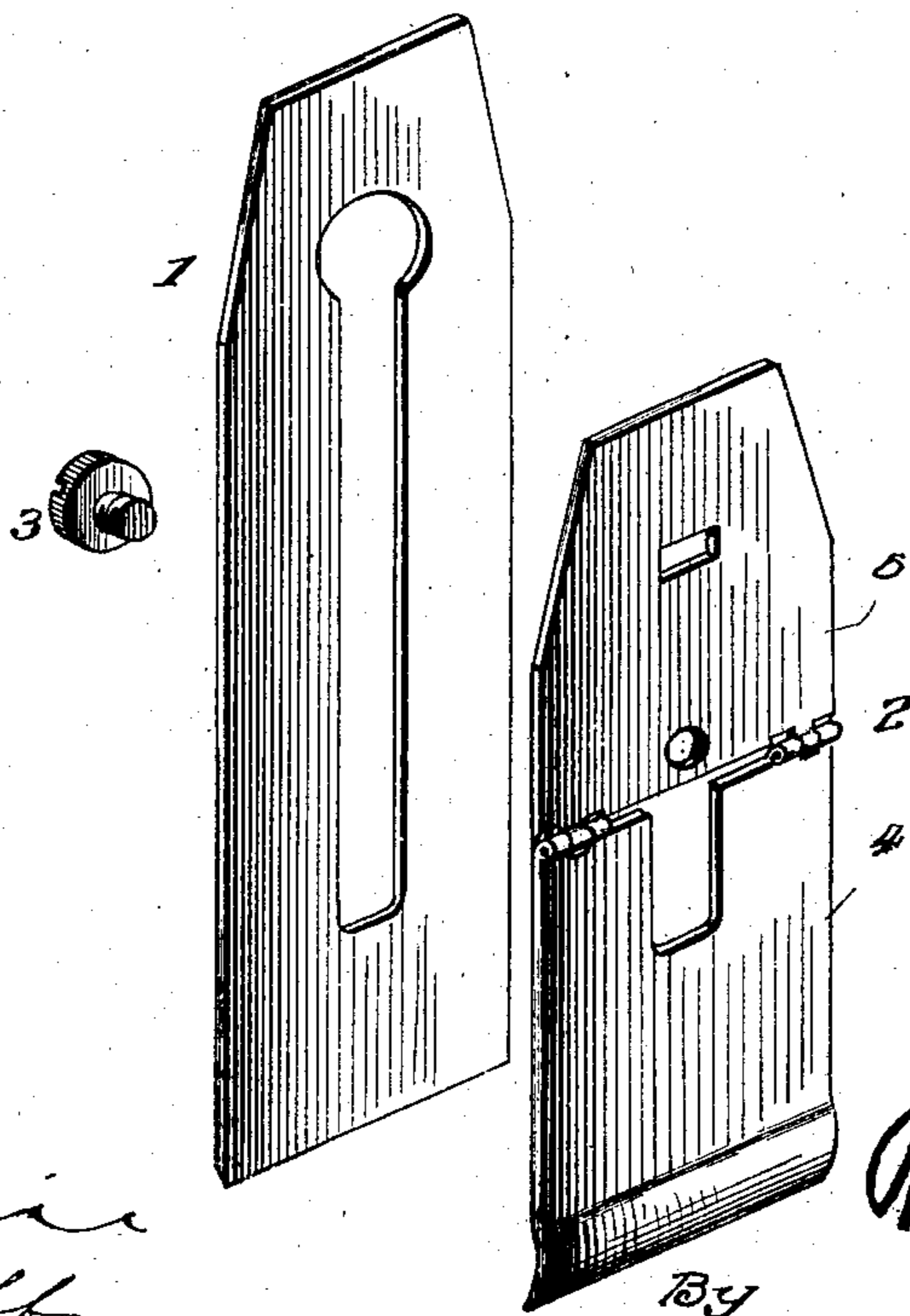


Fig. 3.



Witnesses

John M. Jones
Geo. Robb

Inventor
Samuel Jones

R. H. R. Racy

By

R. H. R. Racy
Attorneys

UNITED STATES PATENT OFFICE.

SAMUEL JONES, OF JACKSON, OHIO.

PLANE-BIT.

SPECIFICATION forming part of Letters Patent No. 737,112, dated August 25, 1903.

Application filed January 9, 1903. Serial No. 138,404. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL JONES, a citizen of the United States, residing at Jackson, in the county of Jackson and State of Ohio, have invented certain new and useful Improvements in Plane-Bits, of which the following is a specification.

Planes designed for carpenters' and joiners' use have the bit for the most part reinforced and strengthened by a cap or stay plate, held thereto by a clamp bolt or screw. When sharpening the bit either by grinding or whetting, it becomes necessary to remove the cap or stay plate, so that the face of the bit may be presented to the grindstone or oil-stone to enable the removal of the wire-edge and the securing of a keen cutting edge. The removal and the proper replacement of the cap-plate are almost always attended with vexation for one reason or another, which it is the purpose of the present invention to overcome. This invention enables the proper sharpening of the bit without necessitating the removal of the cap-plate, which is composed of sections hingedly connected, the lower section being free to be turned back upon the bit out of the way and the upper section being secured to the bit in the usual manner to admit of adjustment of the cap or stay plate as the bit wears away.

The invention consists of a plane-bit having a cap or stay plate hinged thereto, so as to be thrown back out of the way to admit of proper sharpening of the bit.

The invention also consists of a cap or stay plate for plane-bits composed of hinged sections.

The invention further consists of the novel features, which hereinafter will be more fully described, claimed, and illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of a plane-bit embodying the invention. Fig. 2 is a view similar to Fig. 1, showing the lower section of the cap or stay plate folded back upon the bit. Fig. 3 is a perspective view of the bit and cap-plate detached.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The plane-bit 1 may be of any pattern or make adapted for the stock of a carpenter's or joiner's plane and is provided with the cap or stay plate 2, secured thereto by the bolt or clamp screw 3. The cap or stay plate is composed of sections 4 and 5, hinged together in any way to admit of the lower section 4 folding back upon the bit out of the way. The stay portion 4 is hinged to the bit 1 through the part 5 and can be turned instantly to occupy either an operative position or be out of the way. The part 5 can be adjusted to admit of shifting the cap or stay plate to compensate for wear of the bit. After the bit has been removed from the plane-stock (not shown) it may be sharpened in the accustomed way by folding the stay-section 4 upon the bit, as shown in Fig. 2, it not being necessary to remove the cap or to loosen the clamp-screw. After the bit has been sharpened the section 4 is turned into a normal position and the bit replaced in the stock in the usual way. This part 4 constitutes, in effect, the reinforcement for the bit and is clamped thereto by the same means employed for securing the bit to the stock or frame.

Having thus described the invention, what is claimed as new is—

1. A plane-bit having a reinforcement hingedly connected therewith, substantially as described.

2. A cap-plate or stay for a plane-bit composed of hinged sections, substantially as specified.

3. In combination with a plane-bit, a stay, an attaching-section having the stay hinged thereto, and means for adjustably connecting the attaching-section to the said bit, substantially as set forth.

4. In combination with a plane-bit, a cap-plate composed of hinged sections, and means for adjustably connecting the upper section with the bit, substantially as specified.

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

SAMUEL JONES. [L. S.]

Witnesses:

W. T. MORGAN,
E. E. EUBANKS.