

No. 729,169.

PATENTED MAY 26, 1903.

J. H. HENDY.
BATTERY STAMP STEM GUIDE.

APPLICATION FILED MAY 26, 1902.

NO MODEL.

Fig. 1.

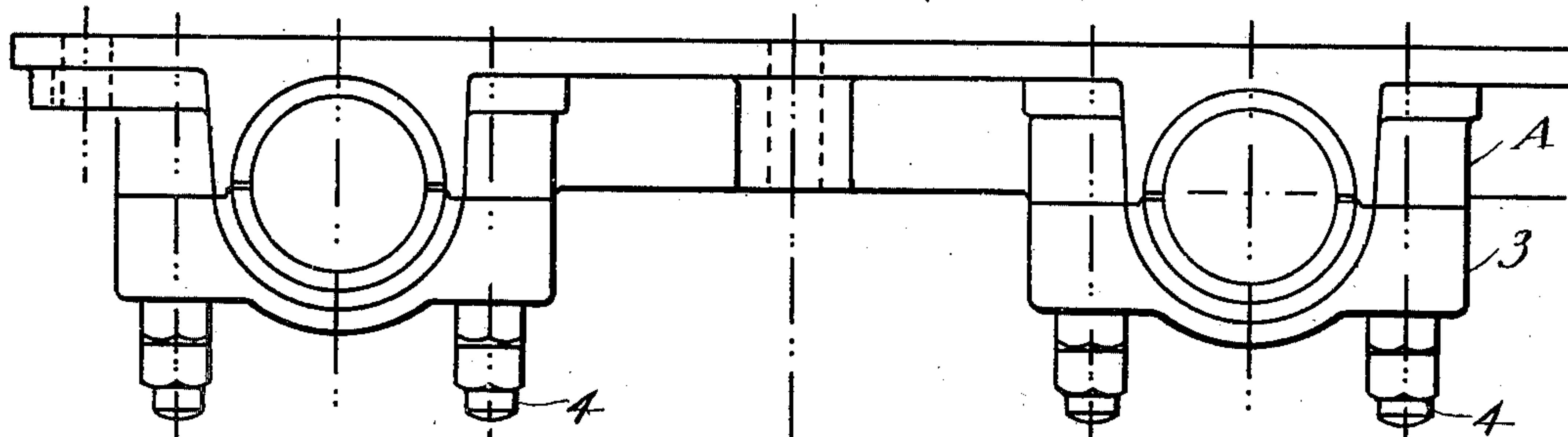


Fig. 2.

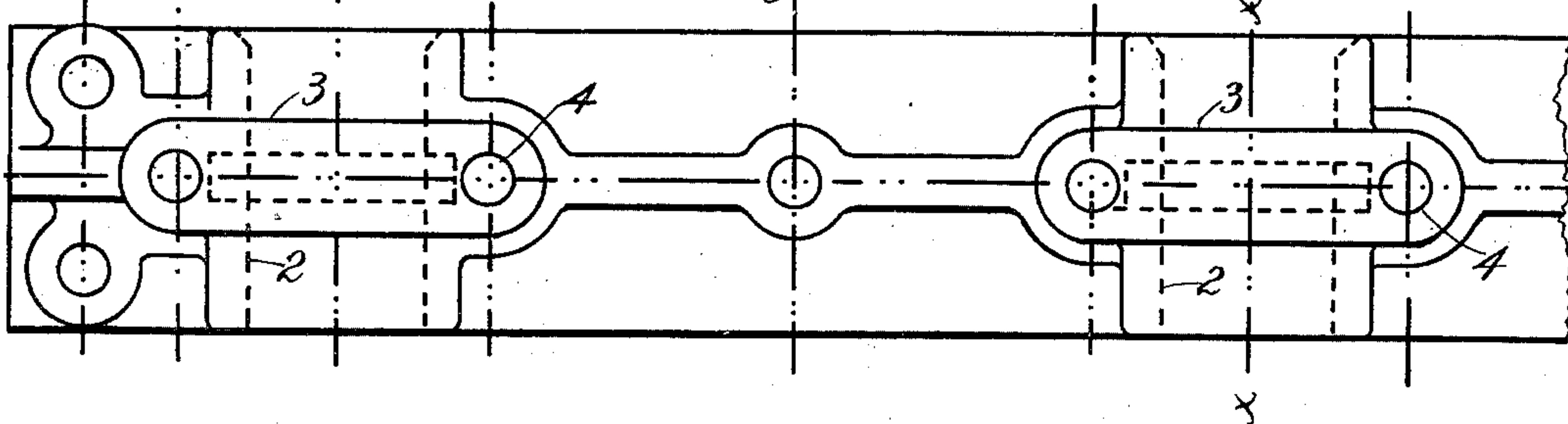


Fig. 3.

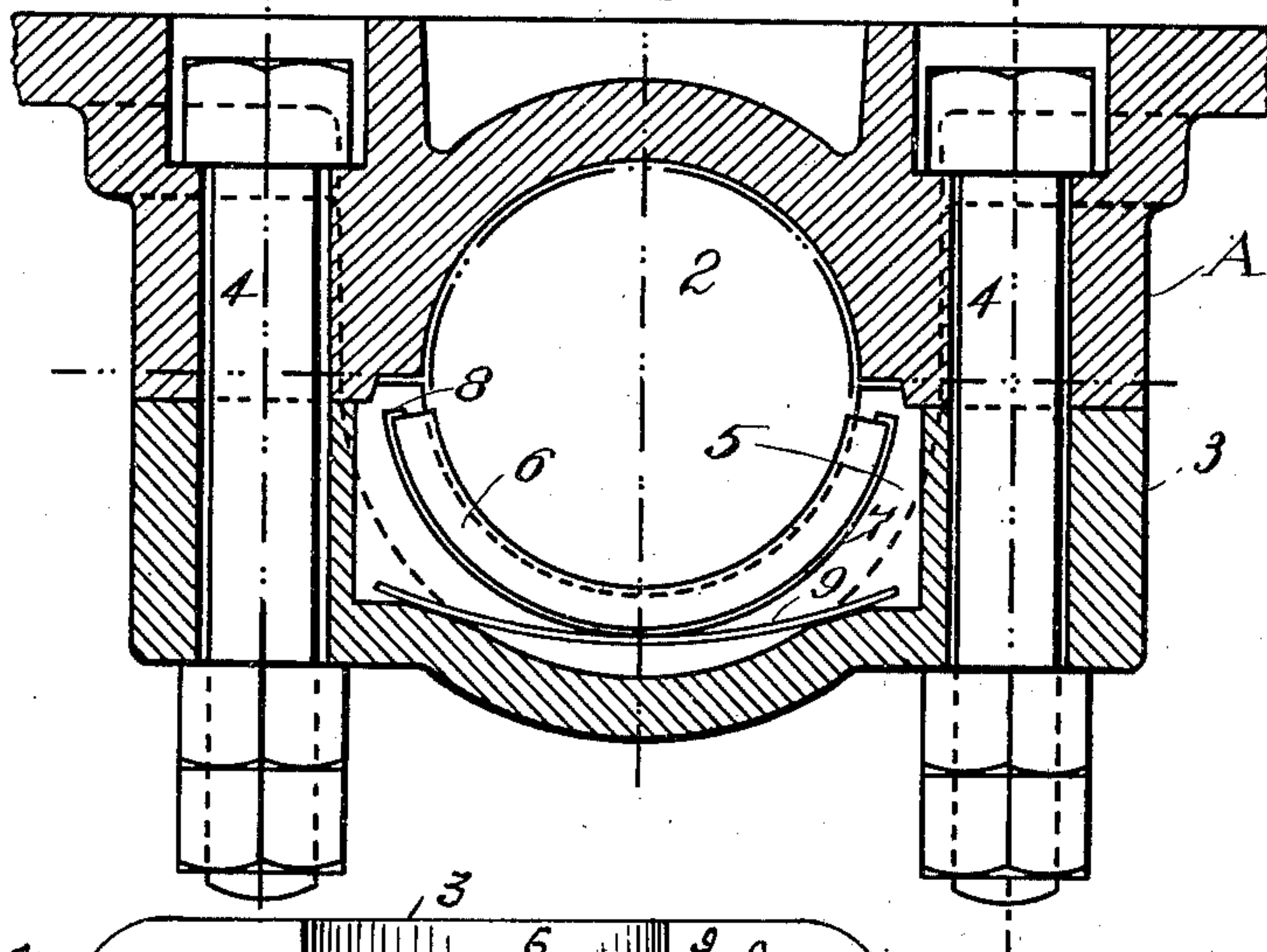
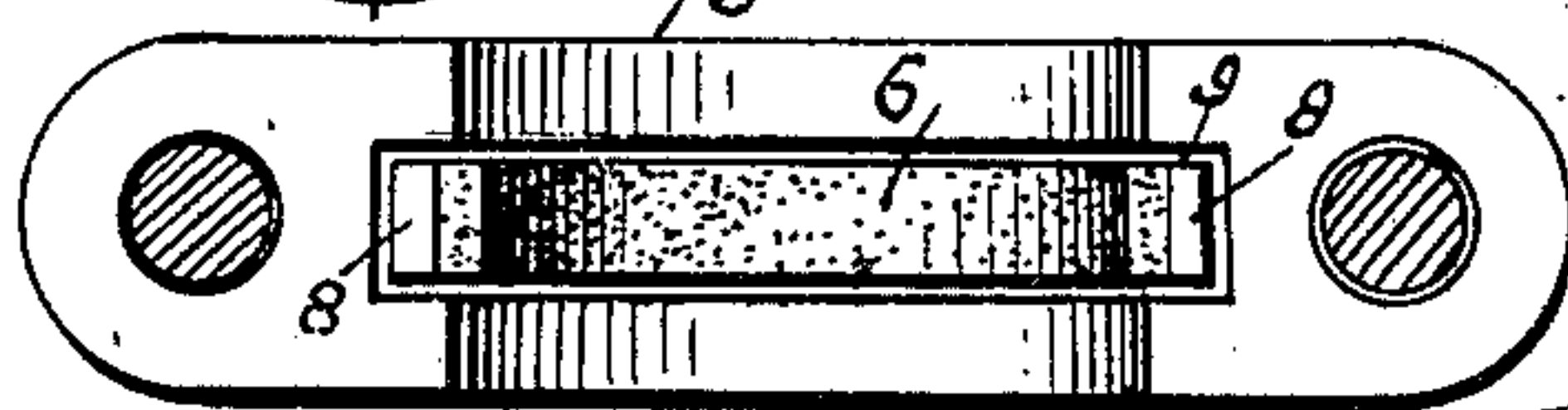


Fig. 4.



Witnesses,

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UNITED STATES PATENT OFFICE.

JOHN H. HENDY, OF SAN FRANCISCO, CALIFORNIA.

BATTERY-STAMP-STEM GUIDE.

SPECIFICATION forming part of Letters Patent No. 729,169, dated May 26, 1903.

Application filed May 26, 1902. Serial No. 108,984. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. HENDY, a citizen of the United States, residing in the city and county of San Francisco, State of California, have invented an Improvement in Battery-Stamp-Stem Guides; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to a guide for the stems of battery-stamps.

It consists in the formation of a chamber within the guide, a piece of thick felt fitting in said chamber and having a segmental compressing spring-plate fitting around its exterior, and an independent spring pressing upon the back thereof, whereby the felt is held in close contact with the stamp-stem and its movements.

It also comprises details of construction which will be more fully explained by reference to the accompanying drawings, in which—

Figure 1 shows an end view of two boxes as arranged for stamp-stems. Fig. 2 is a top view of the same. Fig. 3 is a transverse section showing the interior of a box and my attachment. Fig. 4 is a detail showing a plan of the inner side of the cap 3 and the felt piece 6 and showing the bolts 4 in cross-section.

In the construction of stamp-mills the stamps are carried at the lower ends of iron or steel stems, which are guided so as to rise and fall vertically when actuated by the cams by which they are lifted. The guides in which these stems move are a source of considerable trouble, because the lubricant employed to reduce friction will run down the stems and into the battery, mixing with the pulverized ore and interfering with its amalgamation and other treatment to separate the gold or silver therefrom.

It is the object of my invention to provide a means for preventing the lubricant from running down the stems and to keep the guides comparatively dust-proof.

As shown in the drawings, A is the inner half of the box, which may be made of wood or metal and is properly fixed and supported so as to be in the line of movement of the stamp-stem 2. Over this is fitted a cap 3, which is secured by bolts 4 and nuts upon the outer ends of the bolts. The interior of this cap is chambered, as shown at 5.

6 is a piece of thick felt cut to fit within the

chamber, and it is inclosed by a segmental spring-plate 7, which fits upon the outside and has the ends inturned, as shown at 8, so as to practically form a holder within which the felt is retained and by which it is curved into shape to fit against that portion of the stamp-stem which is contiguous to it. Any equivalent substance may replace the felt. In order to hold the felt at all times against the stem, I have shown a spring 9, the ends of which contact with the outer part of the interior of the chamber of the cap, and the central portion rests against the spring 7, so that there is a constant pressure thereon to hold the felt against the stem when the cap is in place. In this manner the chamber may contain the necessary lubricant for the stamp-stem, and the lubricant will be retained within the box and prevented from running down the stem by the felt, as described.

It will be understood that the felt-containing chamber may be made either in the box or cap, or both, and the felt or its equivalent correspondingly disposed.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination in a stamp-stem guide of a box, a chambered cap and a filling of spring-supported felt or equivalent yielding flexible material substantially as described.

2. The combination in a stamp-stem guide of a box, a chambered cap, bolts by which it is secured to the box, a felt or equivalent flexible material fitted within the box and an inclosing segmental spring having inturned ends and adapted to fit and hold the felt in contact with the stamp-stem.

3. The combination in a stamp-stem guide of a box, a chambered cap fitting thereto, and bolts by which it is secured in place, a cushion of felt or equivalent flexible material, a segmental spring having inturned ends adapted to hold the felt and to curve it to fit the stamp-stem, a supplemental spring supported and pressing upon the back of the spring-inclosed felt whereby it is maintained in contact with the stamp-stem.

In witness whereof I have hereunto set my hand.

JOHN H. HENDY.

Witnesses:

S. H. NOURSE,

JESSIE C. BRODIE.