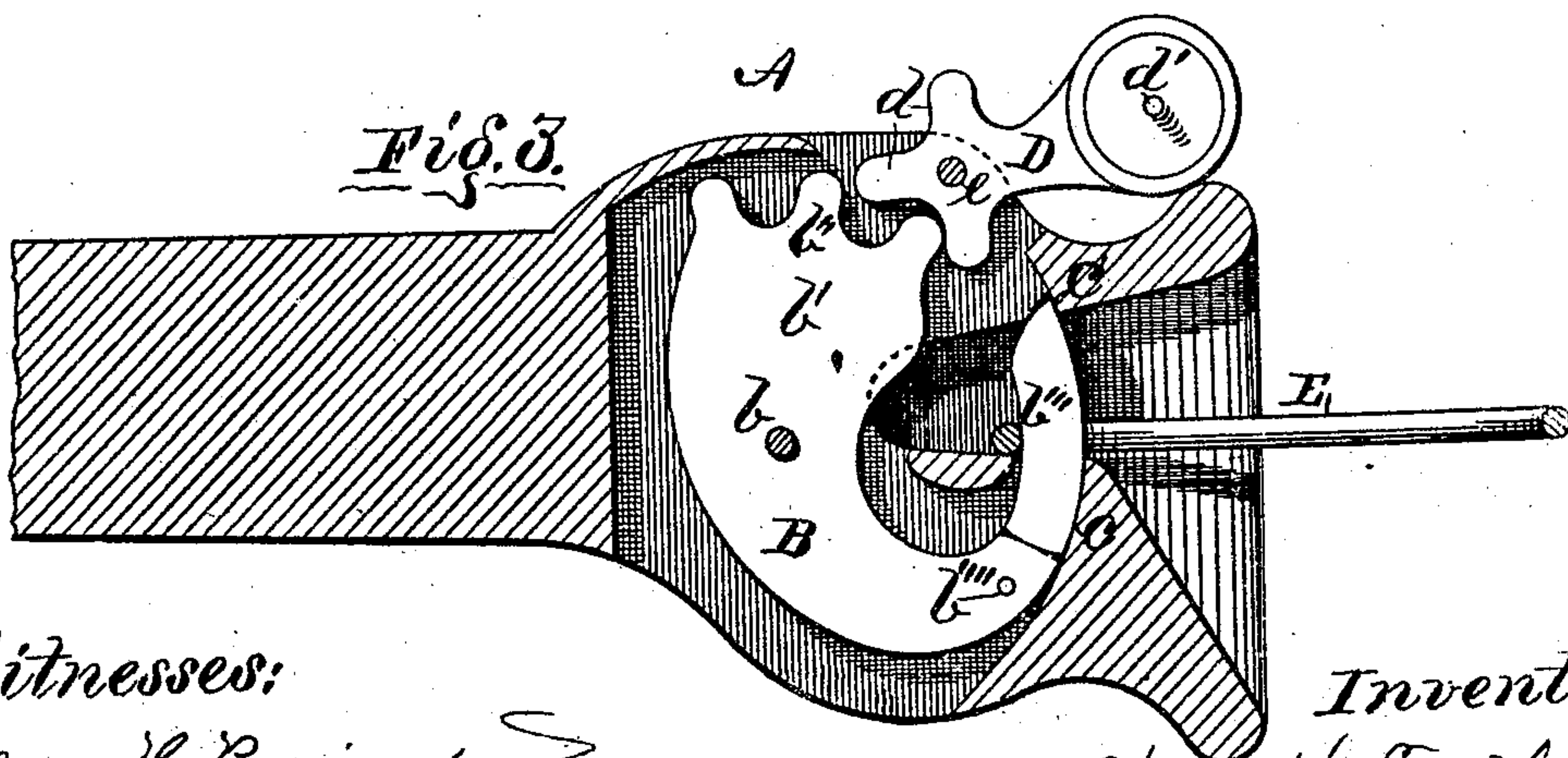
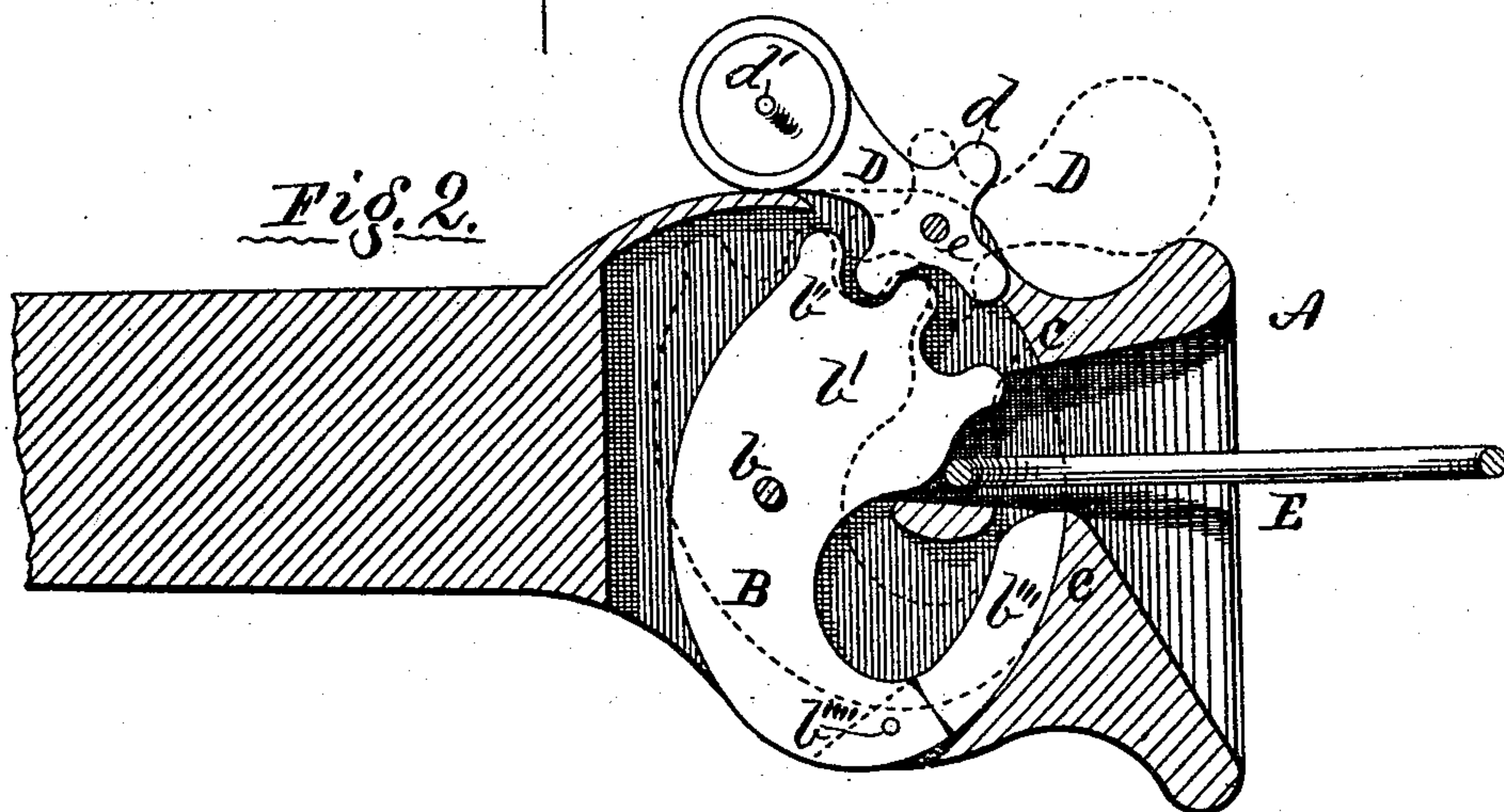
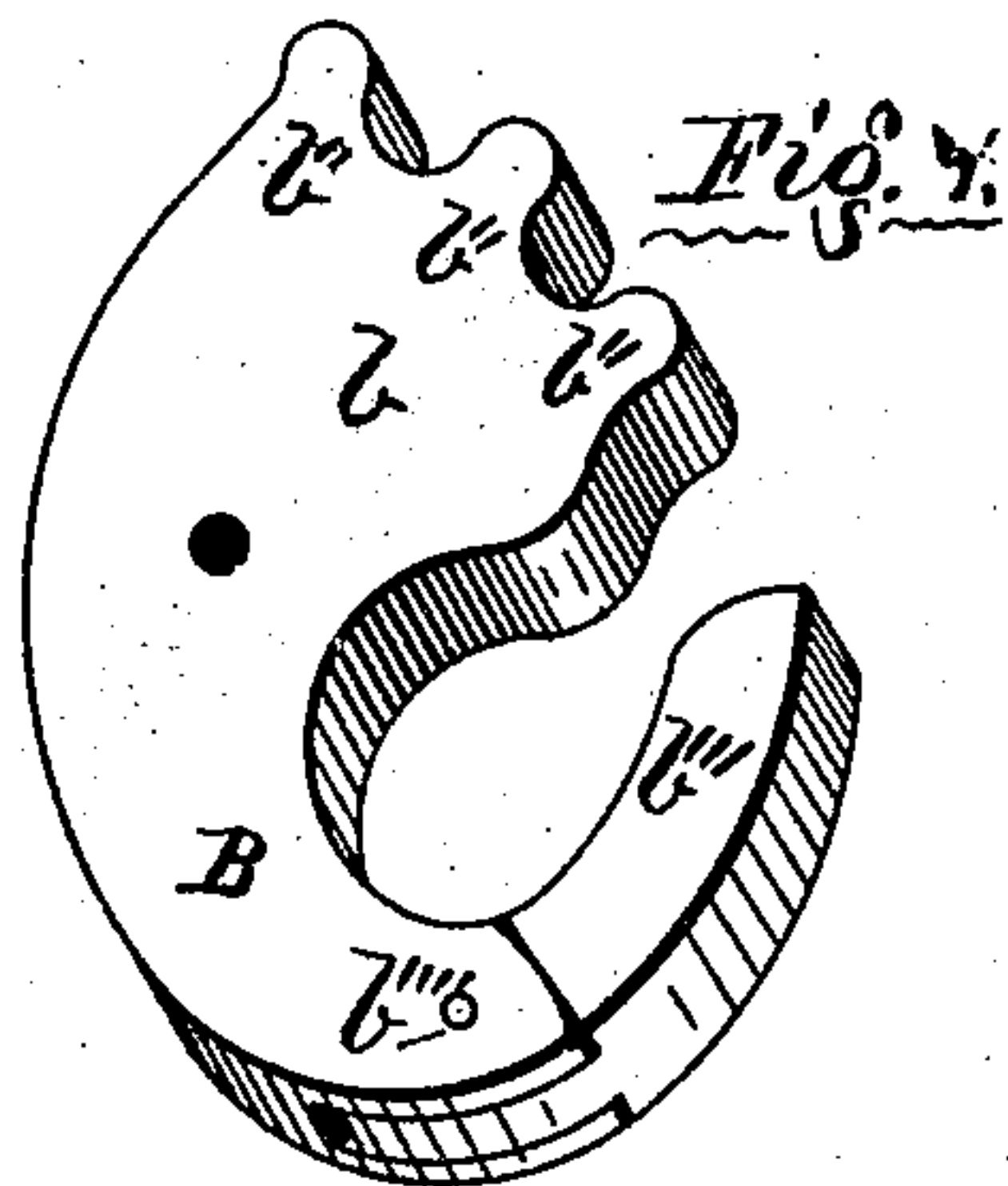
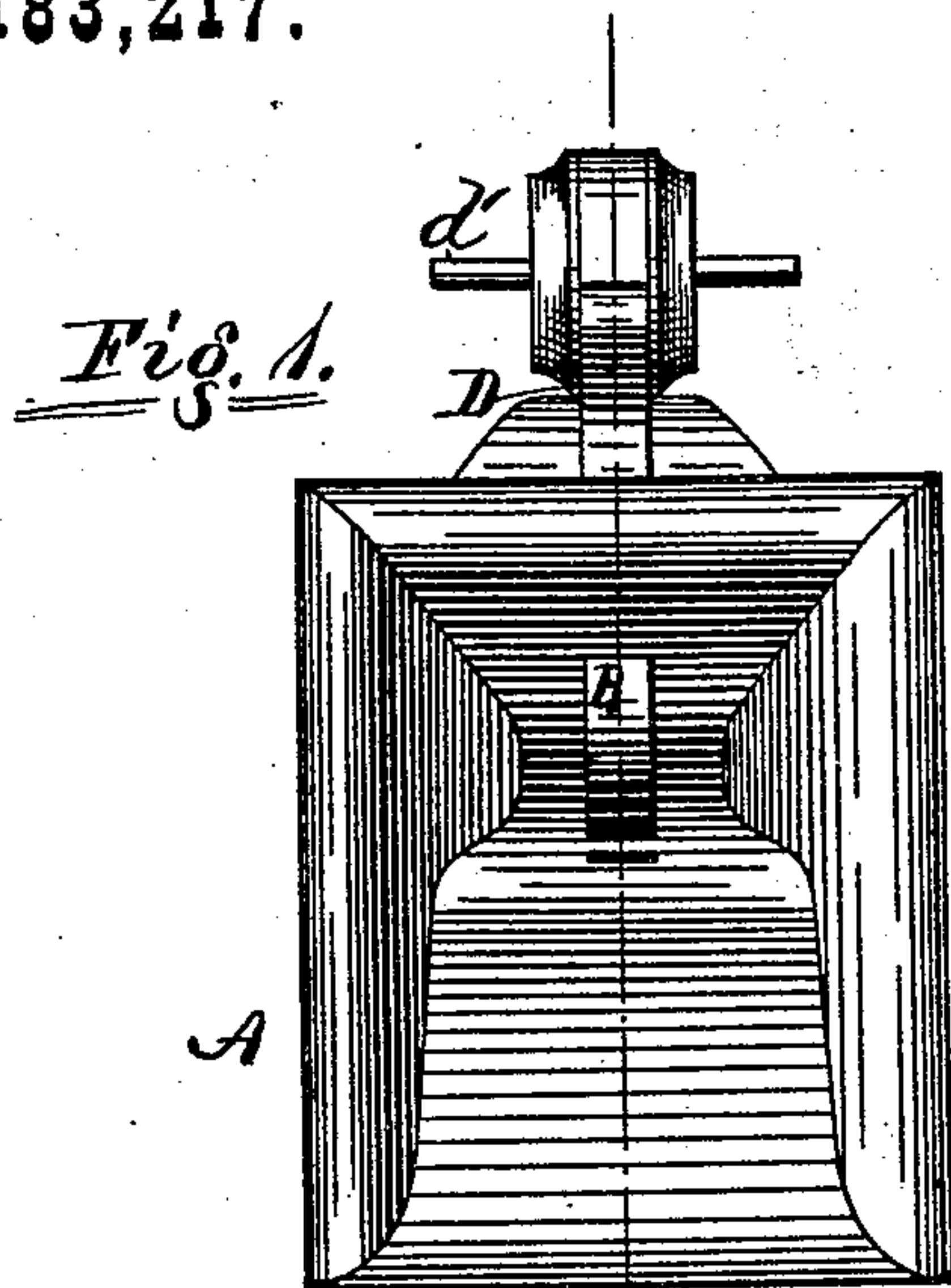


W.H. SADLER.

CAR-COUPLING.

No. 183,217.

Patented Oct. 10, 1876.



Witnesses:

Myron H. Barringer
Platt R. Richards.

Inventor:

Wm. H. Sadler,
By W. B. Richards, atty.

UNITED STATES PATENT OFFICE.

WILLIAM H. SADLER, OF MOLINE, ILLINOIS, ASSIGNOR OF ONE-HALF HIS
RIGHT TO JAMES G. WELLS, OF SAME PLACE.

IMPROVEMENT IN CAR-COUPPLINGS.

Specification forming part of Letters Patent No. 183,217, dated October 10, 1876; application filed
August 23, 1876.

To all whom it may concern:

Be it known that I, WILLIAM H. SADLER, of Moline, in the county of Rock Island and State of Illinois, have invented certain new and useful Improvements in Car-Couplings; and I do hereby declare that the following is a full, clear, and exact description thereof, which 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 letters of reference marked thereon, which form a part of this specification.

This invention relates to improvements in railway-car couplings; and the invention consists in certain new and improved devices and combinations of devices, whereby the operation of coupling cars automatically is rendered more certain and effective, all as hereinafter more fully set forth.

In the accompanying drawing, Figure 1 is a front elevation of a draw-head embodying my invention. Fig. 2 is a vertical sectional view in the line *xx* in Fig. 1. Fig. 3 is a sectional view in the same vertical plane as Fig. 2, but showing the operating parts in different positions from that shown at Fig. 2. Fig. 4 is a perspective view of the tumbler-hook.

Referring to the parts by letters, A is the draw-head, the mouth of which is enlarged at its rear portion, to form a seat for the tumbler-hook B, which is pivoted therein at *b*. The tumbler B is curved and formed, as plainly shown in the drawings, with an enlarged upper end, *b'*, which is cut into teeth *b''*, and a smaller curved end, *b'''*, which forms the hook to secure the link in coupling. The hook end of the tumbler B is hinged or jointed to the main portion at *b''''*, as more plainly shown at Fig. 4, so as to permit of slight flexure, and of substituting another in case of breakage. The cavity in the draw-head in which the tumbler B is seated is so formed that the hook *b'''* may rest against its front sides *c* for a support. D is a lever, pivoted at *e* in the upper side of the draw-head, and its lower end formed into teeth *d*, which engage with the teeth *b''* of the tumbler B.

The upper end of the lever D is weighted or

made heavy, and may carry any suitable device, *d'*, which may extend to the side of the car for operating the coupling, or to which any suitable device may be attached and extend to the top of the car, for operating it from that position. E is an ordinary coupling-link.

Fig. 2 shows plainly the position of the parts when uncoupled and ready to receive the link E, carried by an approaching draw-head. (Not shown.) The weighted lever D will hold the parts securely in this position by gravity until the link E, entering, strikes the upper part of the tumbler B, and propels it backward to the coupled position. (Shown by dotted lines at same figure, and by full lines at Fig. 3.) The weighted lever D will now hold the parts in their new position by gravity, also, until, by hand or some device extending from any desired part of the car, the lever D is thrown back and uncoupling effected.

The flexibility of the tumbler B will always insure support against the shoulder *c*, and the joint for producing flexibility also permits of changing the points of the tumbler, and of making them of any metal desired, and different from the metal of which the body is composed.

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

1. The tumbler B, constructed, as described, with an enlarged upper end, *b'*, provided with teeth *b''*, and arranged to operate with the correspondingly-toothed lever D, draw-head A, and link E, substantially as and for the purpose specified.

2. The oscillating tumbler B, constructed in two parts, *b'* *b'''*, hinged to each other, and arranged to operate with the draw-head A and link E, substantially as and for the purpose specified.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

WILLIAM H. SADLER.

Witnesses:

JOHN M. HOLT,

ELSWORTH A. MAPES.