

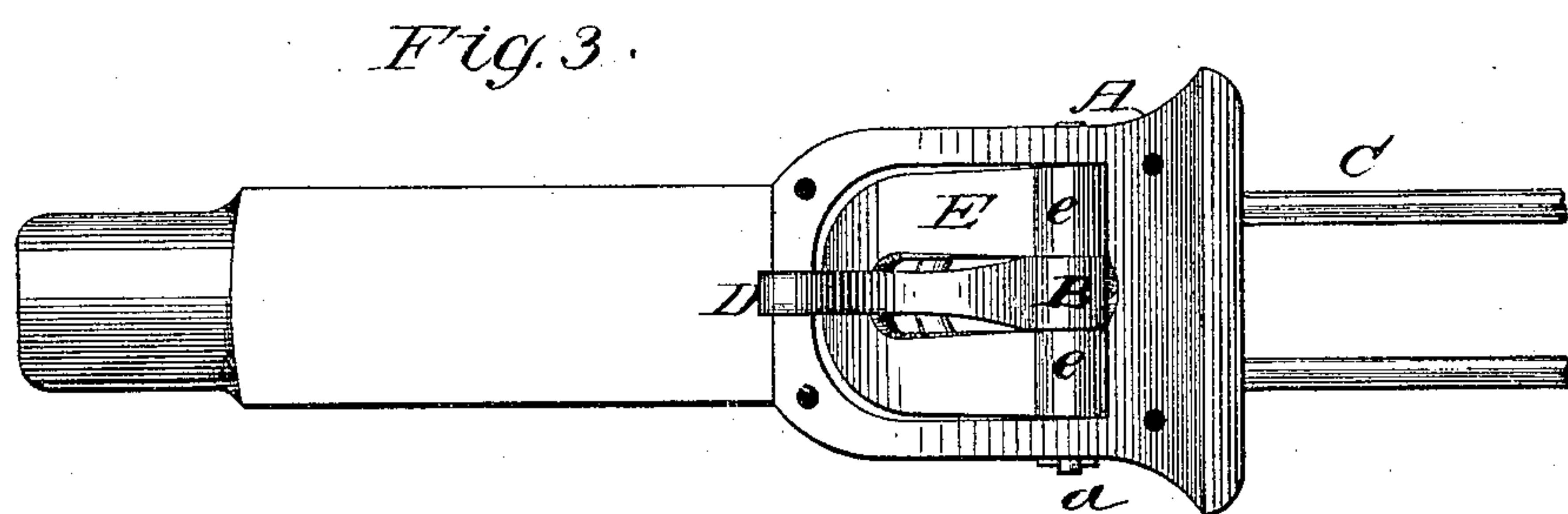
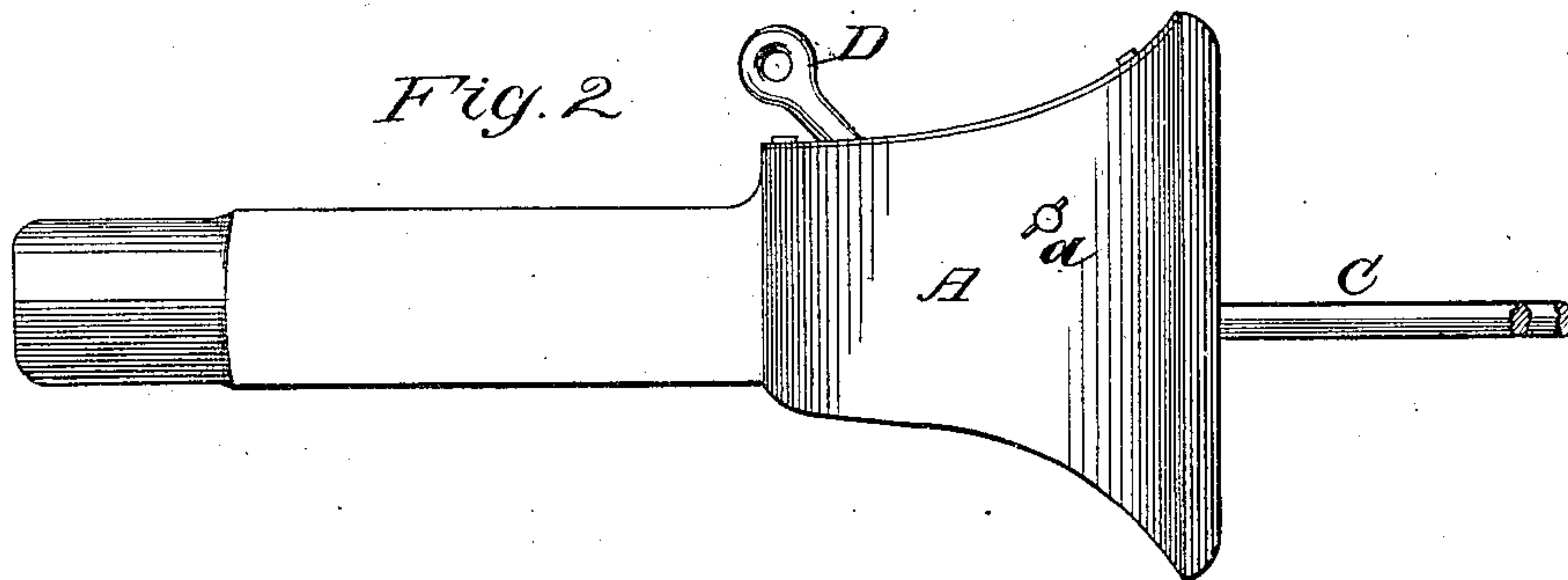
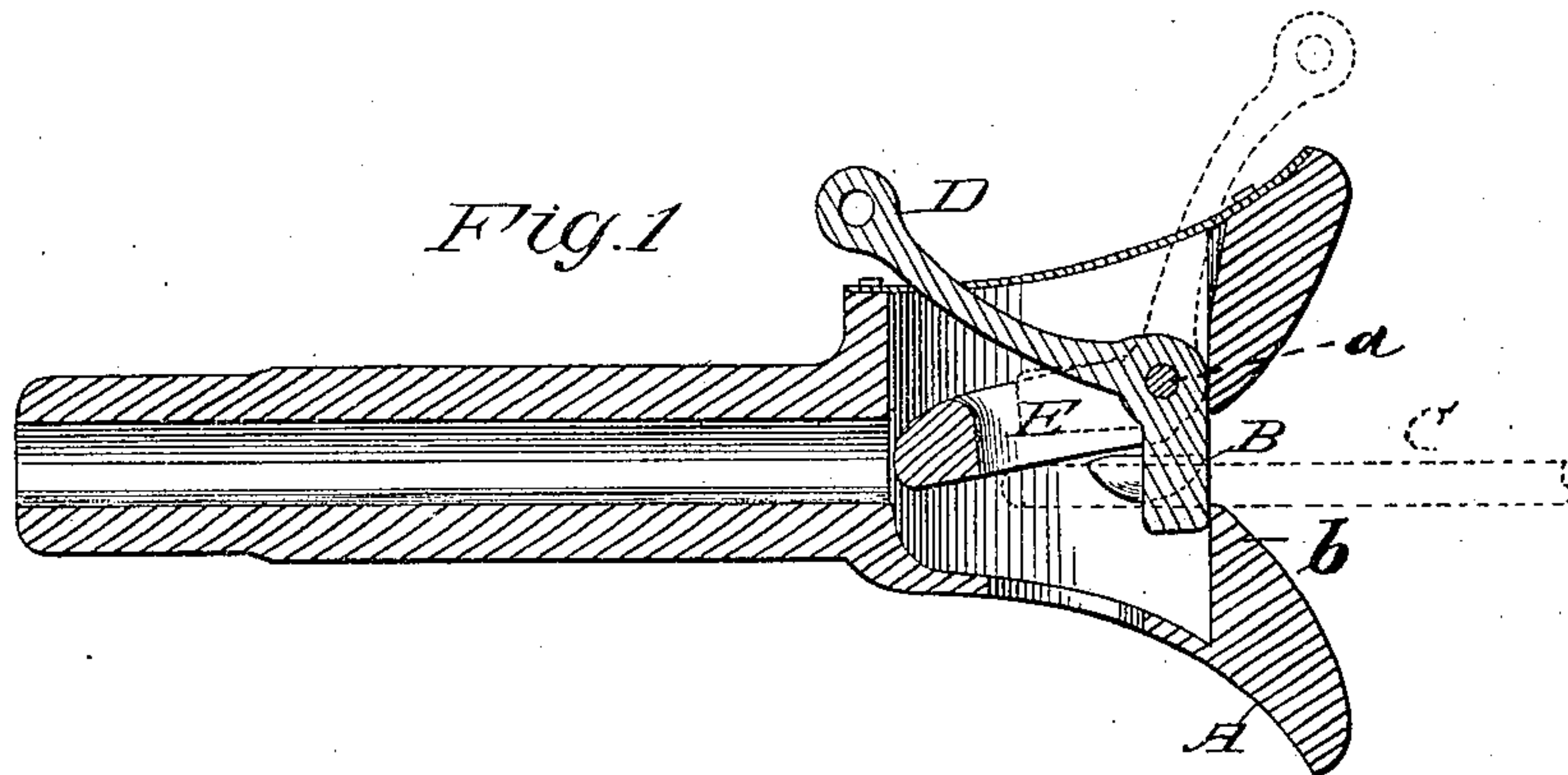
(No Model.)

A. BARTLETT.

CAR COUPLING.

No. 245,431.

Patented Aug. 9, 1881.



Witnesses:

Robert West
Alfred Mann

Inventor.

Alex Bartlett
per James Delgarno
Attorney

UNITED STATES PATENT OFFICE.

ALEXANDER BARTLETT, OF CHATHAM, ONTARIO, CANADA.

CAR-COUPLING.

SPECIFICATION forming part of Letters Patent No. 245,431, dated August 9, 1881.

Application filed February 14, 1881. (No model.) Patented in Canada July 19, 1880.

To all whom it may concern :

Be it known that I, ALEXANDER BARTLETT, a British subject, residing at the town of Chatham, in the county of Kent, in the Province of Ontario, Canada, have invented a new and useful Improvement in Car-Couplings, of which the following is a specification.

My invention relates to that class of couplings known as "self-couplers;" and the object of my invention is to provide a coupling simple in construction, and so arranged that it shall contain no springs or small parts which are liable to become deranged by rough usage. I attain these objects in the manner illustrated in the accompanying drawings, in which—

Figure 1 is a transverse vertical section through the center of a coupling embodying my invention. Fig. 2 is an elevation of the same, and Fig. 3 is a plan showing the hinged weight.

Similar letters of reference indicate corresponding parts in all the figures.

In the annexed drawings, A is the draw-head, the mouth of which is made flaring, as usual, for the ready insertion of the link C in coupling.

Transversely through the upper forward part of the draw-head is inserted a bolt, *a*, which serves as a fulcrum or hinge for the bifurcated or horseshoe-shaped weight E, which rests wholly within the draw-head, as shown in Fig. 1. Upon the middle of bolt *a*, between the eyes *e e* of the bifurcated weight E, is hinged the draw-pin B, which has a rearwardly-extending arm or lever, D, extending up through the slot or opening in the roof of the draw-

head, and has an eye at its outer end for the attachment of a rod or chain. The lower end of the draw-bolt B impinges upon a lip or shoulder, *b*, in the front part of the draw-head, back of its flaring mouth.

When the link C is inserted into the draw-head it pushes the draw-bolt B back, as shown in dotted lines, and lifts the rear end of the bifurcated weight E, which, by resting upon or bearing against the end of the link, serves to keep this in a true horizontal position, as shown by dotted lines in Fig. 1.

The peculiar shape of the weight, which conforms to the shape of the inserted end of the link, gives it a true bearing upon the latter, so as to keep it steady, and this shape also permits of the insertion and easy working of the draw-bolt B with its arm D, which, while it has a free motion in a vertical plane, is prevented from lateral play upon the bolt *a* by the eyes or hinges *e e* of weight E.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

In a car-coupling, the combination of the chambered draw-head A, having bolt *a*, horseshoe shaped weight E, hinged upon bolt *a* by its eyes *e e*, and draw-bolt D B, hinged upon bolt *a* between the arms and eyes of weight E, substantially as and for the purpose herein shown and specified.

ALEX. BARTLETT.

Witnesses:

JAMES DALGARM,
ROBERT WATT.