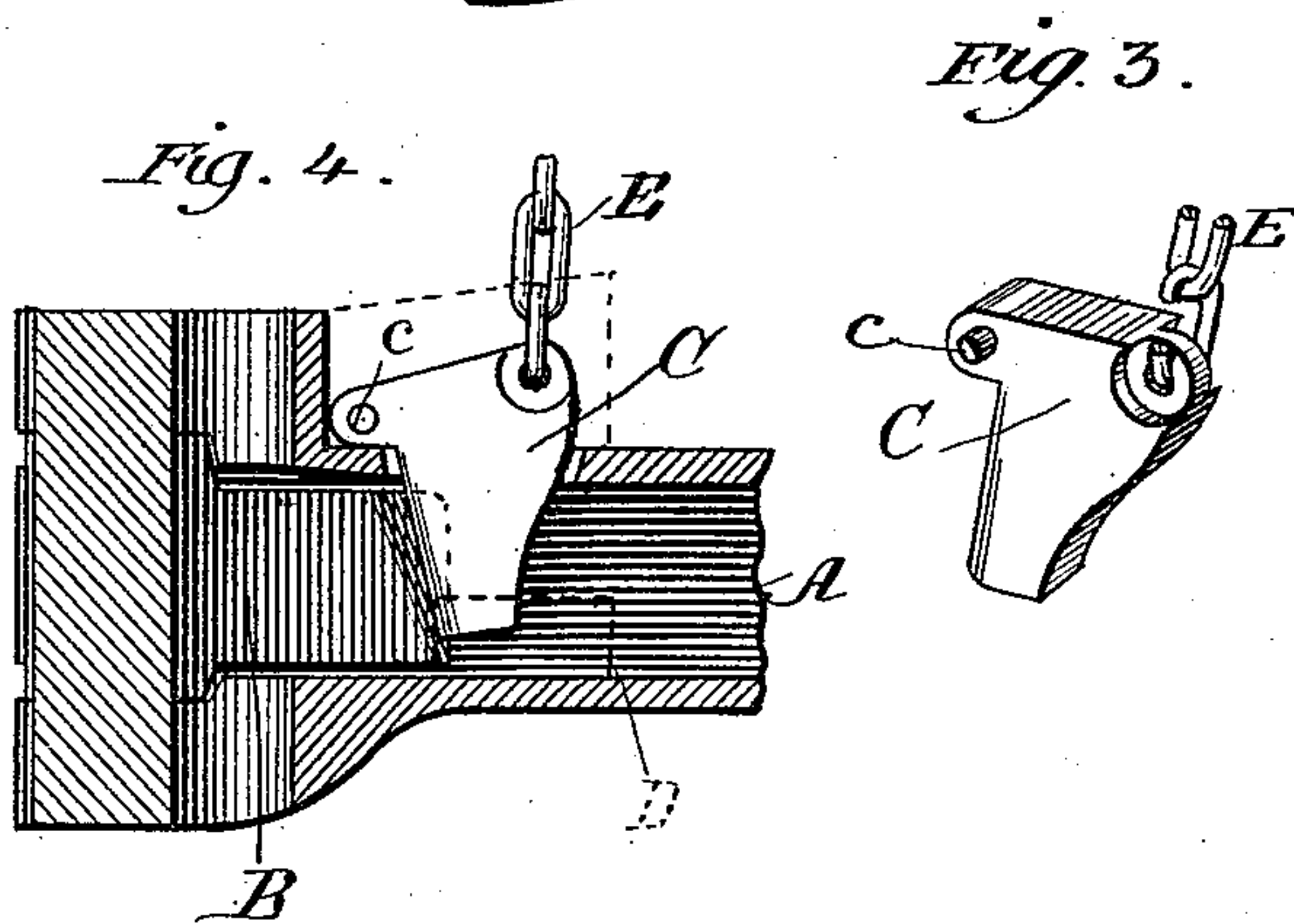
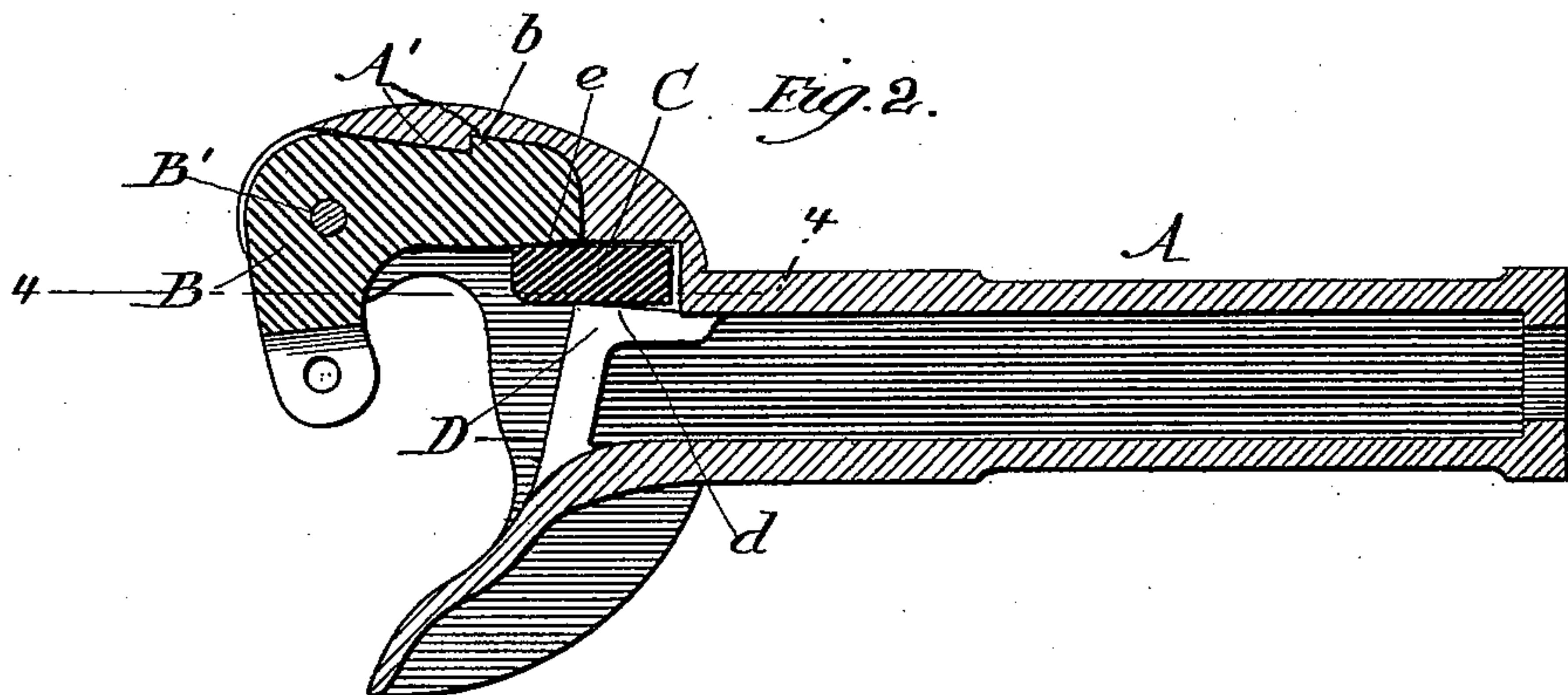
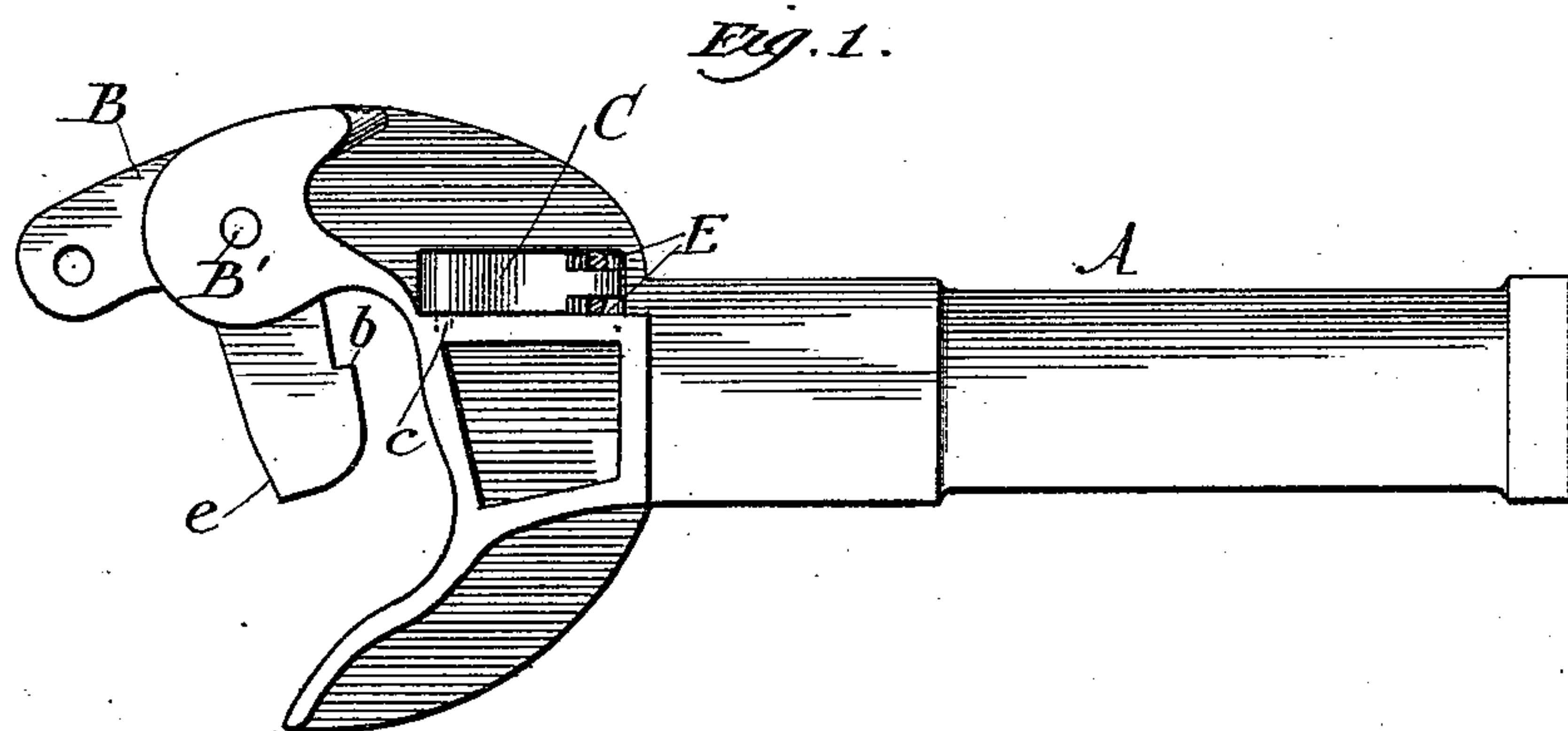


(No Model.)

A. C. MATHER.
CAR COUPLING.

No. 438,697.

Patented Oct. 21, 1890.



Witnesses:
Frank S. Blanchard
William H. Coe

Inventor:
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UNITED STATES PATENT OFFICE.

ALONZO C. MATHER, OF CHICAGO, ILLINOIS.

CAR-COUPLING.

SPECIFICATION forming part of Letters Patent No. 438,697, dated October 21, 1890.

Application filed June 17, 1890. Serial No. 355,740. (No model.)

To all whom it may concern:

Be it known that I, ALONZO C. MATHER, a citizen of the United States, residing at Chicago, in the county of Cook, State of Illinois, have invented a new and useful Improvement in Car-Couplers, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to that class of couplers which are known as "twin" or "automatic" couplers; and it consists of the novel construction of a lock by which the knuckle is held in its closed position, and so wedged into the body of the coupler that it becomes as if it were a part of the same.

In the accompanying drawings, Figure 1 is a plan view of my invention; Fig. 2, a plan view with the top broken away to show the internal arrangement of my locking device. Fig. 3 is a detail of my lock. Fig. 4 is a sectional view taken on line 4 of Fig. 2.

Like letters of reference indicate like parts.

A is the coupler.

B is the knuckle.

C is the lock.

E is the chain by which the lock is raised to release the knuckle B.

A' represents the notch or slot in the back part of the coupler in which the knuckle is wedged by the lock C.

b is a projection on the back part of the knuckle, which fits perfectly into the slot A'.

e represents the front face of my knuckle B, which is slightly beveled, by which all slack motion due to wear is taken up.

D is a rib cast in the coupler to support the lock rigidly against the knuckle.

It will be seen in operation that the face of the knuckle B and the rib D form a V-shaped opening between them and the lock being hung at its top and front end has a tendency by its weight to constantly wedge itself between the two, thereby taking up all slack motion due to wear, always holding the knuckle rigidly in its embedded position in the back wall of the coupler, on account of which no strain is brought upon the pin B' in either pull or concussion.

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

1. The combination of the coupler A, the knuckle B, having the hooked shape back embedded in the back wall of the coupler A, held in place by the lock C and rib D, substantially as shown and described.

2. The combination of a car-coupler having the knuckle B held in a closed position by the lock C, having its bearing at the top and front, and release-connections at its top and back, substantially as shown and described.

3. The combination, in a car-coupler, of a rib and knuckle so placed as to form a V-shaped opening, between which a gravity-lock or catch is suspended.

ALONZO C. MATHER.

Witnesses:

J. B. ALEXANDER,
WILLIAM Y. COE.