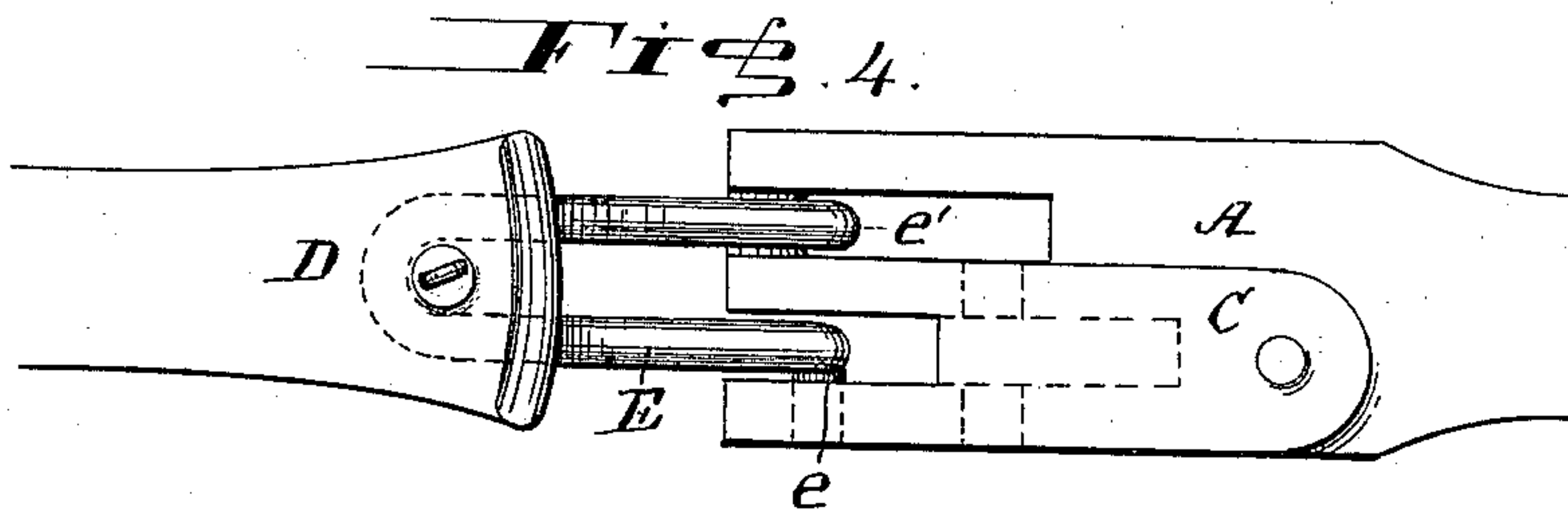
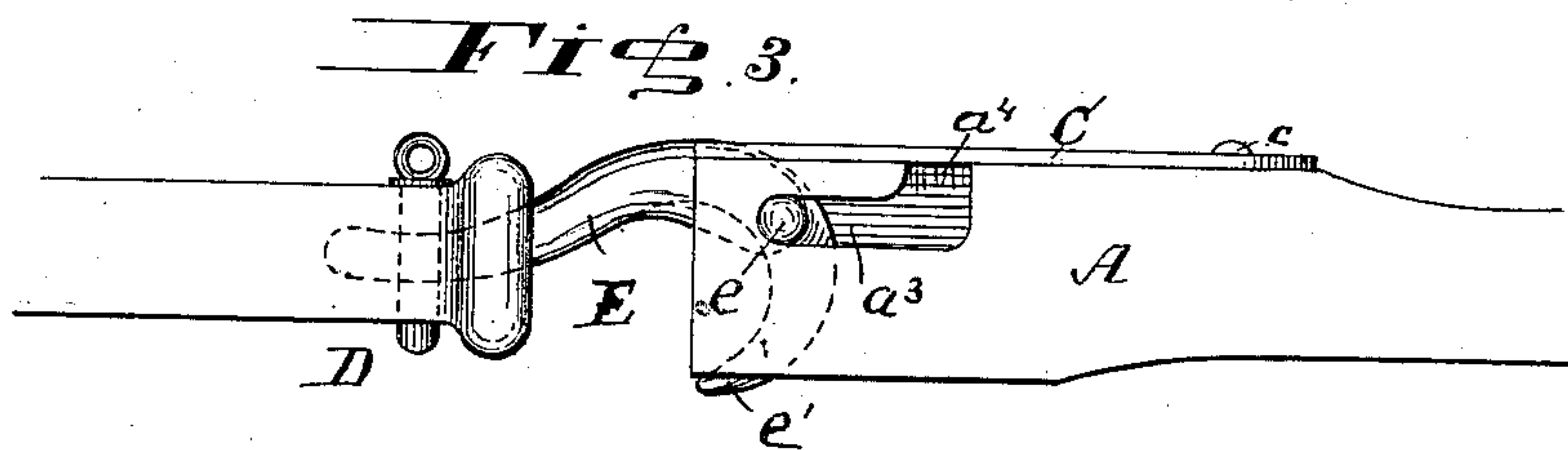
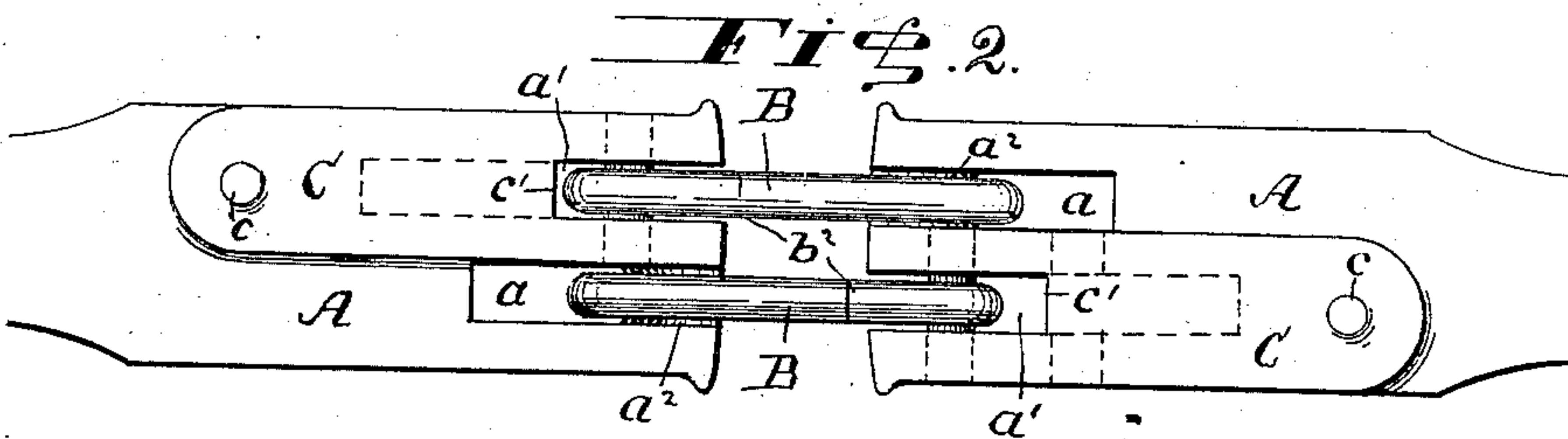
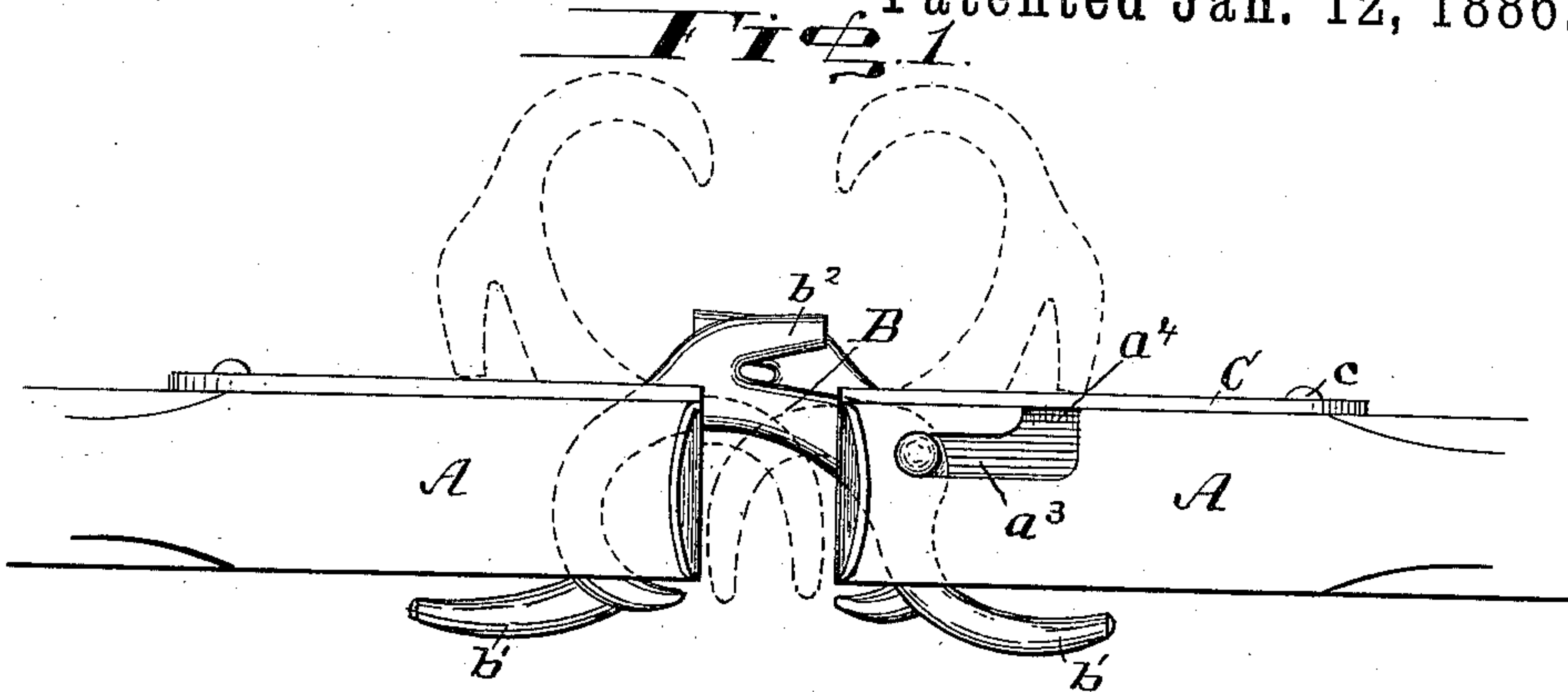


(No Model.)

M. DILL.
CAR COUPLING.

No. 334,355.

Patented Jan. 12, 1886.



Witnesses:
C. J. Bell
O. A. Clark

Inventor:
Mathew Dill
By Raine & Ladd,
Attys.

UNITED STATES PATENT OFFICE.

MATHEW DILL, OF PIQUA, OHIO.

CAR-COUPLING.

SPECIFICATION forming part of Letters Patent No. 334,355, dated January 12, 1886.

Application filed November 7, 1885. Serial No. 182,138. (No model.)

To all whom it may concern:

Be it known that I, MATHEW DILL, a citizen of the United States, residing at Piqua, in the county of Miami and State of Ohio, have
5 invented certain new and useful Improvements in Car-Couplings; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it ap-
10 pertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

This invention relates to car-couplings; and
15 it consists in the detailed construction and combination of the parts hereinafter fully described and claimed.

In the drawings, Figure 1 is a side view of two couplings connected together, the positions of the coupling-hooks before engagement being indicated by dotted lines. Fig.
20 2 is a plan view of the same. Fig. 3 is a side view of one coupling provided with a special link engaging with a pin-and-socket coupling as ordinarily used. Fig. 4 is a plan view of
25 the same.

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

A is the coupling-socket, one of which is
30 attached to each end of each car by any suitable arrangement of draw-bar and springs; or it may be bolted to the car.

Each socket A is provided with a vertical hole, a , and a vertical slot, a' . A portion of
35 the top of the socket is cut away at one end of the hole a , leaving the bar a^2 of suitable form for the coupling-hook to catch over.

Horizontal holes a^3 are formed in the socket on each side of the vertical slot a' , and short
40 vertical slots a^4 are formed at one end of the holes a^3 , so that the pivots of the coupling-hook may be inserted into the said holes.

B is the coupling-hook, provided with pivots b , trip b' , and stop b^2 .

45 C is a cover-plate, pivoted to the top of the socket by the pin c , and provided with a slot, c' , in which the coupling-hook works.

When the cars are approaching each other, the coupling-hooks stand, as shown by the
50 dotted lines in Fig. 1, with the stops b^2 resting upon the top of the cover-plates. When the cars meet, the trip b' of each hook strikes against the end of the socket on the opposite car, and each hook falls and catches over the
55 bar a^2 of the opposite socket.

In order to uncouple the cars, they must be pushed together. The hooks can then be raised, using the trip b' for handles.

The cover-plate keeps each hook or link from coming out of the horizontal holes in the
60 socket.

When it is desired to couple a car provided with a socket, A, to another car having a common pin-and-socket coupling, such as D, a special link, E, is used. The link E is open
65 at one end, and is provided with a pivot, e , and a hook, e' . The coupling-hook B is removed from the socket by turning the cover-plate on its pivot until the pivots b can pass out of the holes a^3 through the slots a^4 . The
70 link E is then inserted in its place. The hook e' of link E engages with the bar a^2 when the pivot e is placed in the end of the hole a^3 , and the looped portion of the link can then be coupled to the pin of the coupling D in the
75 ordinary manner.

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

1. In a car coupling, the combination of a
80 socket in the top of the draw-head, a removable coupling hook or link having lateral bearings and pivoted in the said socket, and a cover-plate pivoted to the top of the draw-head over said socket and retaining the said
85 hook or link within it, substantially as and for the purpose set forth.

2. In a car-coupling, the combination of the
socket A, provided with the holes a and a^3 , the slots a' and a^4 , and the bar a^2 , a coupling
90 hook or link pivoted in the said socket, and a cover-plate pivoted to the top of the said socket and retaining the said hook or link within it, substantially as and for the purpose set forth.
95

3. In a car-coupling, the combination of the
socket A, provided with the holes a and a^3 , the slots a' and a^4 , and the bar a^2 , the coupling-hook B, provided with the pivots b , the trip b' , and the stop b^2 , and the cover-plate C,
100 provided with the pivot-pin c and slot c' , substantially as and for the purpose set forth.

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

MATHEW DILL.

Witnesses:

G. A. BROOKS,
WALTER D. JONES.