

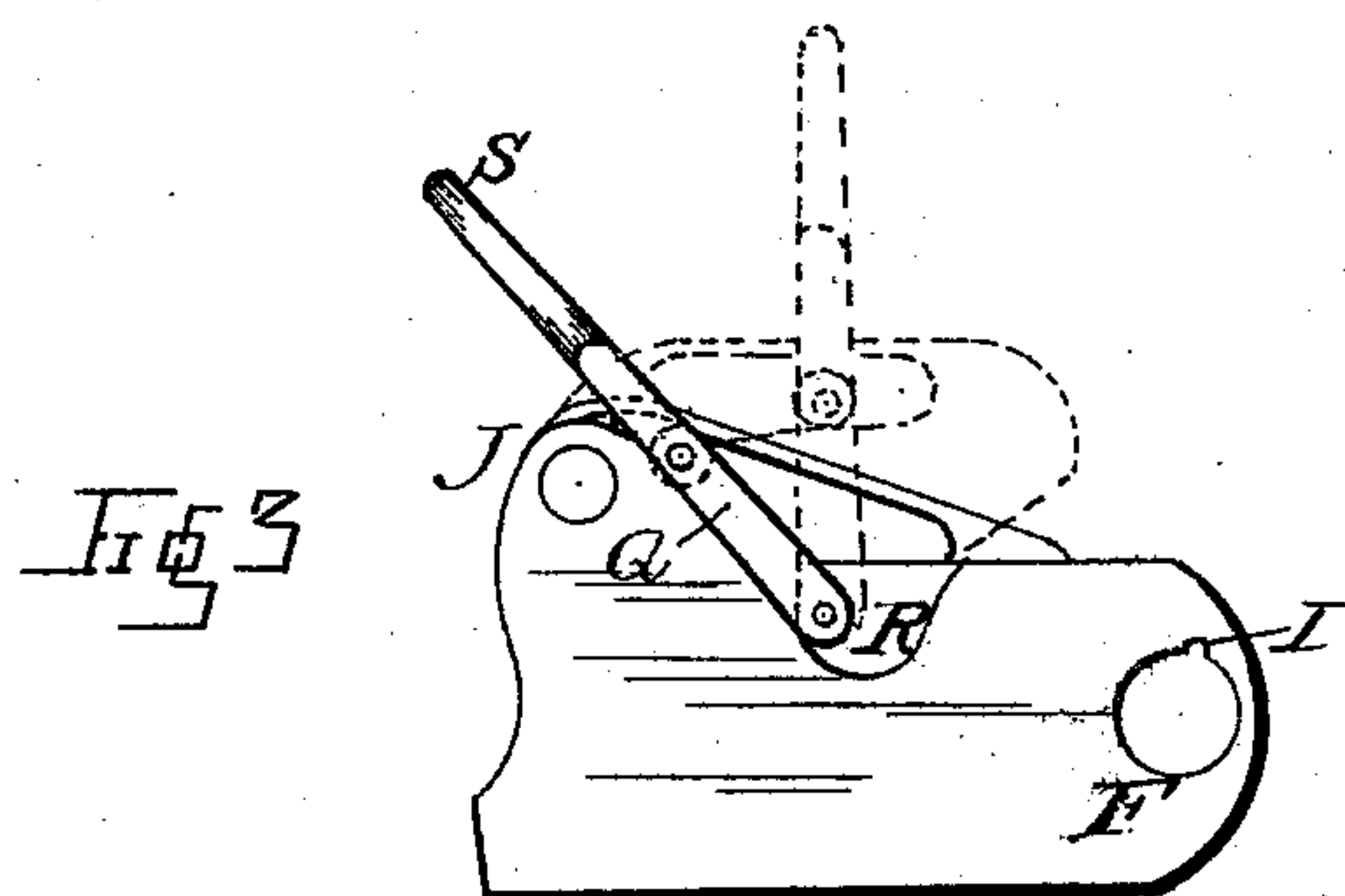
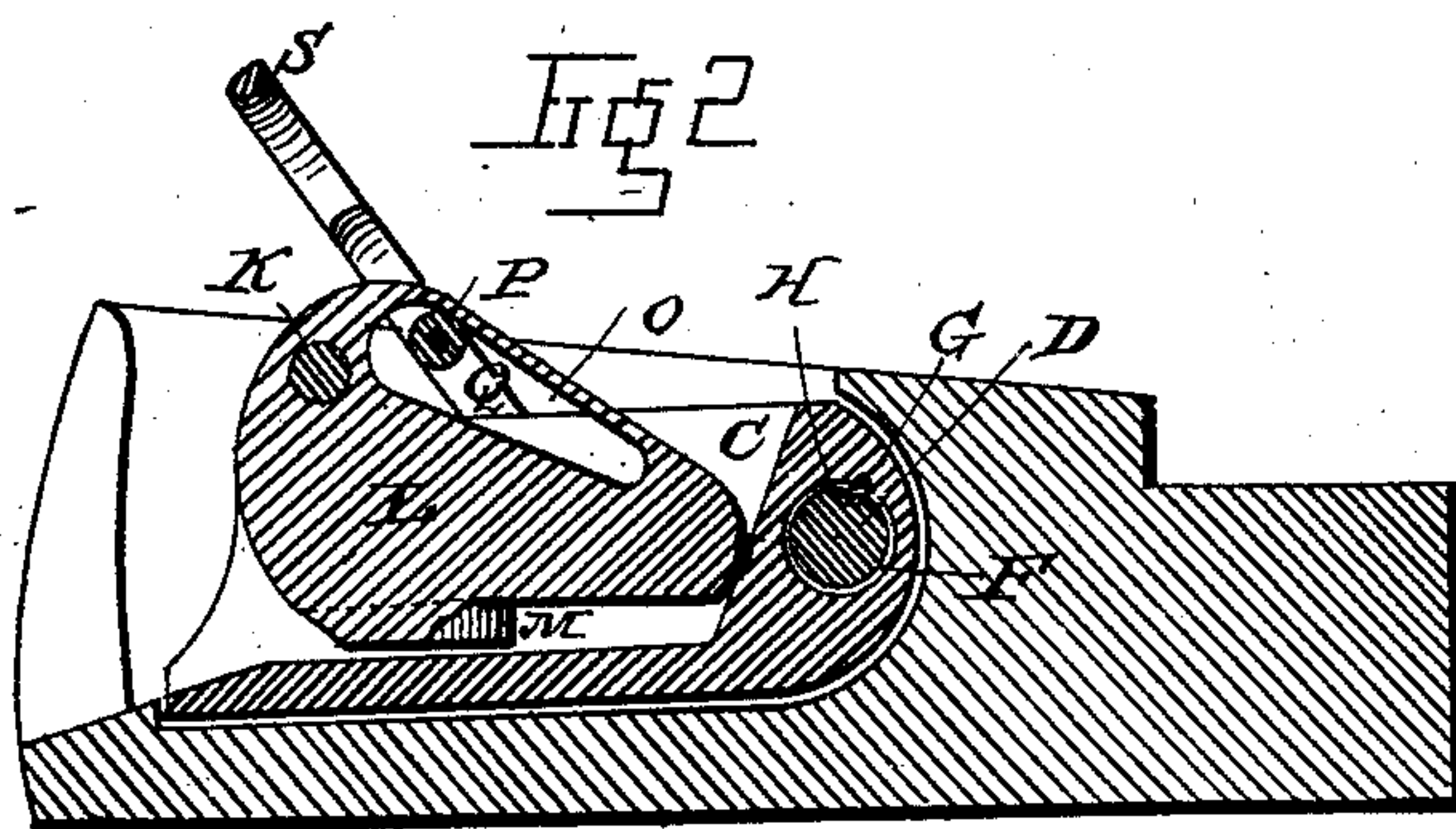
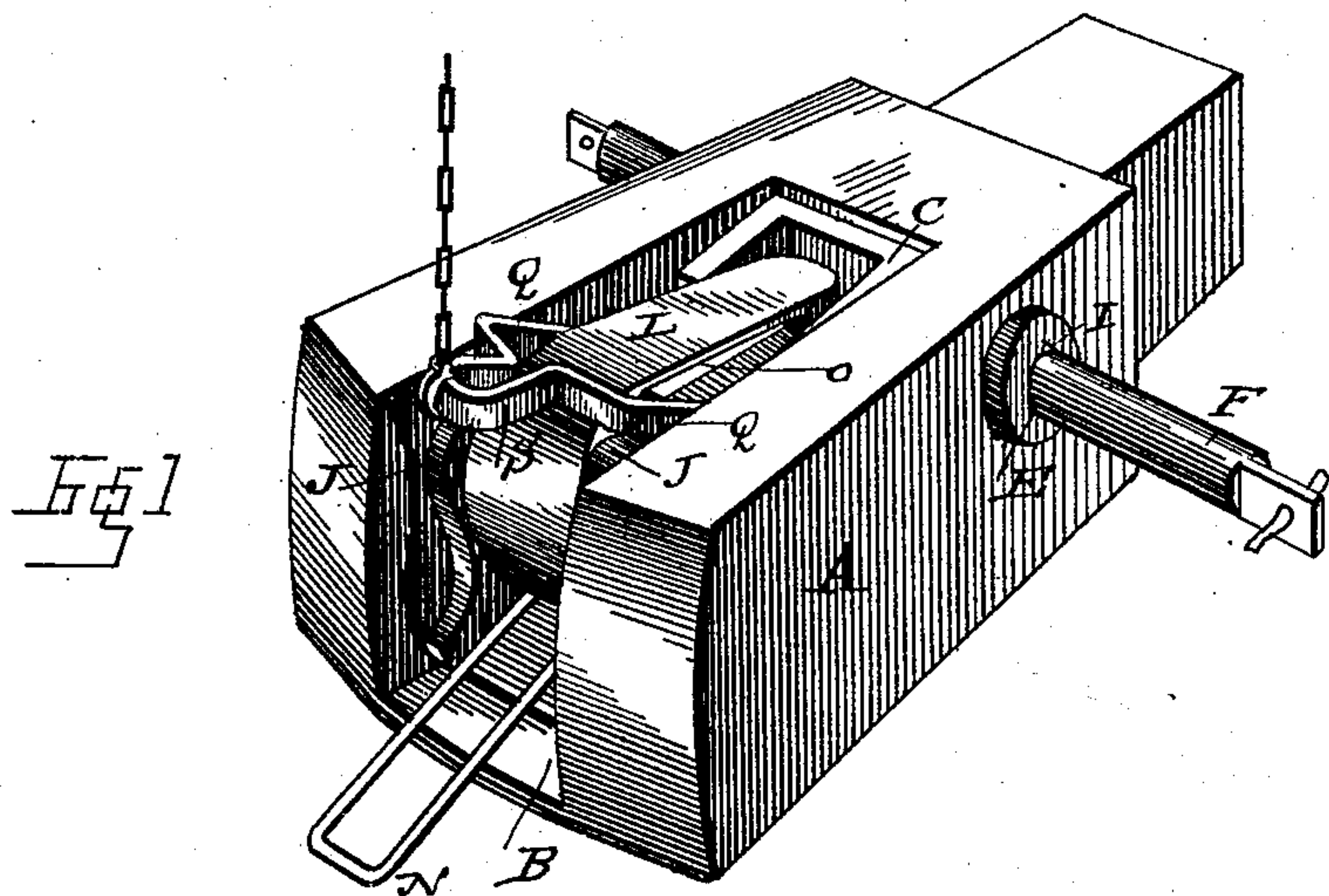
(No Model.)

C. W. McMILLEN.

CAR COUPLING.

No. 273,574.

Patented Mar. 6, 1883.



WITNESSES :

Fred. G. Dieterich:
Jms G. Hinckel

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INVENTOR,
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ATTORNEYS

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UNITED STATES PATENT OFFICE.

CHARLES W. McMILLEN, OF NEW CASTLE, PENNSYLVANIA.

CAR-COUPLING.

SPECIFICATION forming part of Letters Patent No. 273,574, dated March 6, 1883.

Application filed January 30, 1883. (No model.)

To all whom it may concern:

Be it known that I, CHARLES W. McMILLEN, of New Castle, in the county of Lawrence and State of Pennsylvania, 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 of the invention, 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, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved car-coupling. Fig. 2 is a longitudinal sectional view of the same, and Fig. 3 is a side view of the coupling device taken out of the draw-head.

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

My invention has relation to automatic car-couplings; and it consists in the improved construction and combination of parts of the same, as hereinafter more fully described and claimed.

In the accompanying drawings, the letter A indicates the draw-head, which may be attached to the car in any manner desired, and which has a recess, B, open at the end and top of the draw-head. In this recess is hinged a box, C, open at the end and top, upon a bolt or rod, D, which passes through apertures E in the sides of the draw-head and through a hole, F, in the rear end of box C, where it is fastened by a key, G, fitting into grooves H in the bolt and I in the hole. The upper front corners, J, of the box project above the sides, and are perforated for the reception of a bolt, K, upon which a triangular block, L, is hinged at its upper corner, fitting inside the box. This block is provided upon its under side with a projection, M, the front end of which is beveled in line with the beveled front end of the block, and rests upon the bottom of box C, while its rear end is rounded to the sides and adapted to rest in the opening of the coupling-link N and hold it fast, while the beveled front end admits of its being inserted.

At the upper inclined side of the block is a slot, O, cut through the block from side to

side and running parallel with the upper inclined side, in which slides a roller, P, pivoted between two arms, Q, hinged in recesses R upon the sides of the box, and connected over the top of the box, forming an eye, S. These arms rest upon the rear edges of the projecting corners J of the box when the block is in its down position, the projection or lug M bearing against the bottom of the box, and serve to raise the block for the purpose of removing the link when raised and turned rearward, the roller sliding in the inclined slot. These arms may be operated from the side of the car, or be raised by a cord or chain attached to the eye S from the top of the car, allowing the link to be uncoupled, when they will fall back again by the weight of the block when released, leaving the device in position for coupling again when a link is brought to bear against the beveled front end of the block.

It will be seen that the end of the box may be raised in the draw-head to suit a link in a draw-head of a higher car by turning the bolt upon which it is fastened at the rear end, and that the coupling may be used with cars having the usual construction of draw-heads and links and perform its function as well.

It will also be seen that cars having draw-heads of the usual construction may be provided with my coupler with very little additional expense, the device consisting of very few and easily-made parts, and that a draw-head of the old construction may, with few changes, be adapted to receive the device.

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

1. In a car coupling, the combination of the triangular block L, pivoted at its upper forward corner, and having inclined slot O and lug M, with the pivoted arms Q, having roller P, sliding in slot O, as and for the purpose shown and set forth.

2. The car-coupling consisting of draw-head A, having recess B, open at front and top, and holes E in the sides, box C, hinged upon bolt D at its rear end in holes E, and having projecting front corners, J, triangular block L, hinged at its upper forward corner

in corners J, and having inclined slot O and lug M, and arms Q, hinged at R in the sides of box C, and having eye S and roller P, sliding in slot O, constructed and combined to operate as and for the purpose shown and set forth.

In testimony that I claim the foregoing as my

own I have hereunto affixed my signature in presence of two witnesses.

CHARLES WILSON McMILLEN.

Witnesses:

JOHN S. TAGGART,

HOWARD F. McMILLEN.