

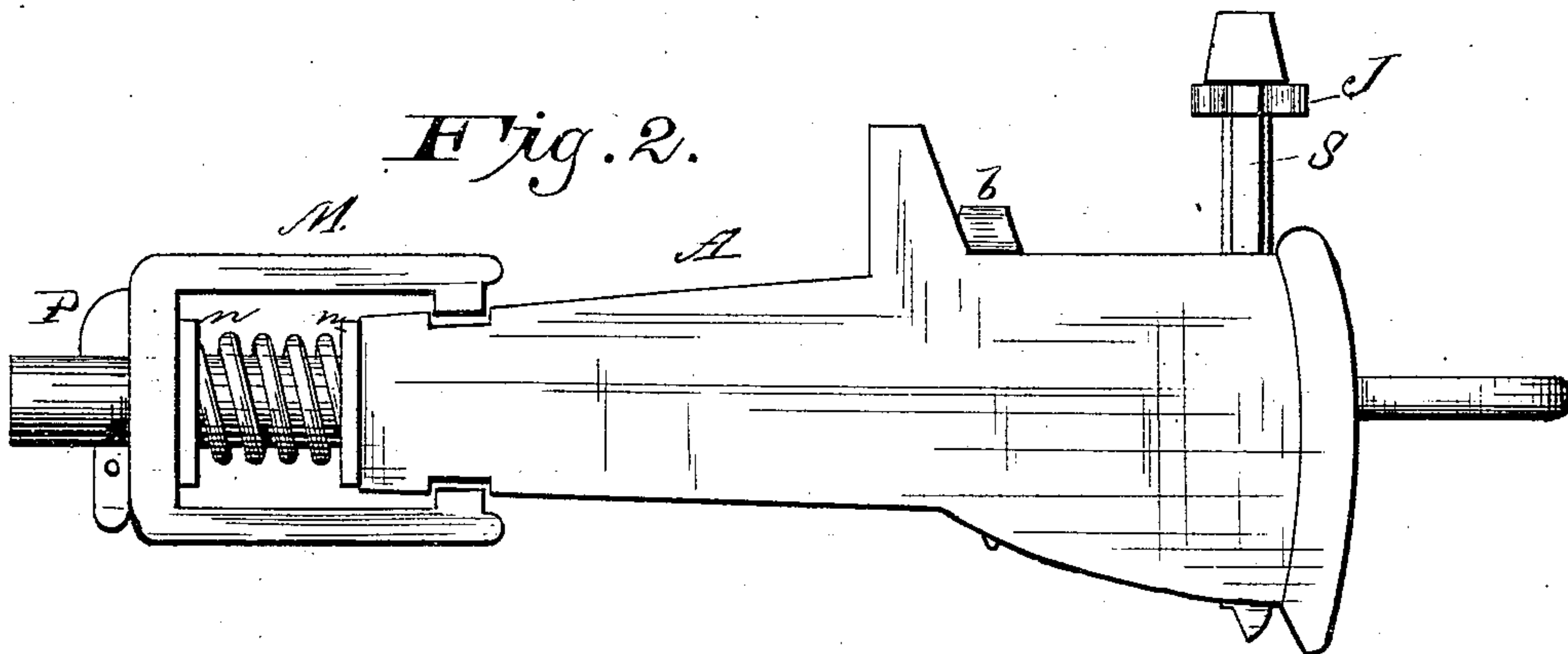
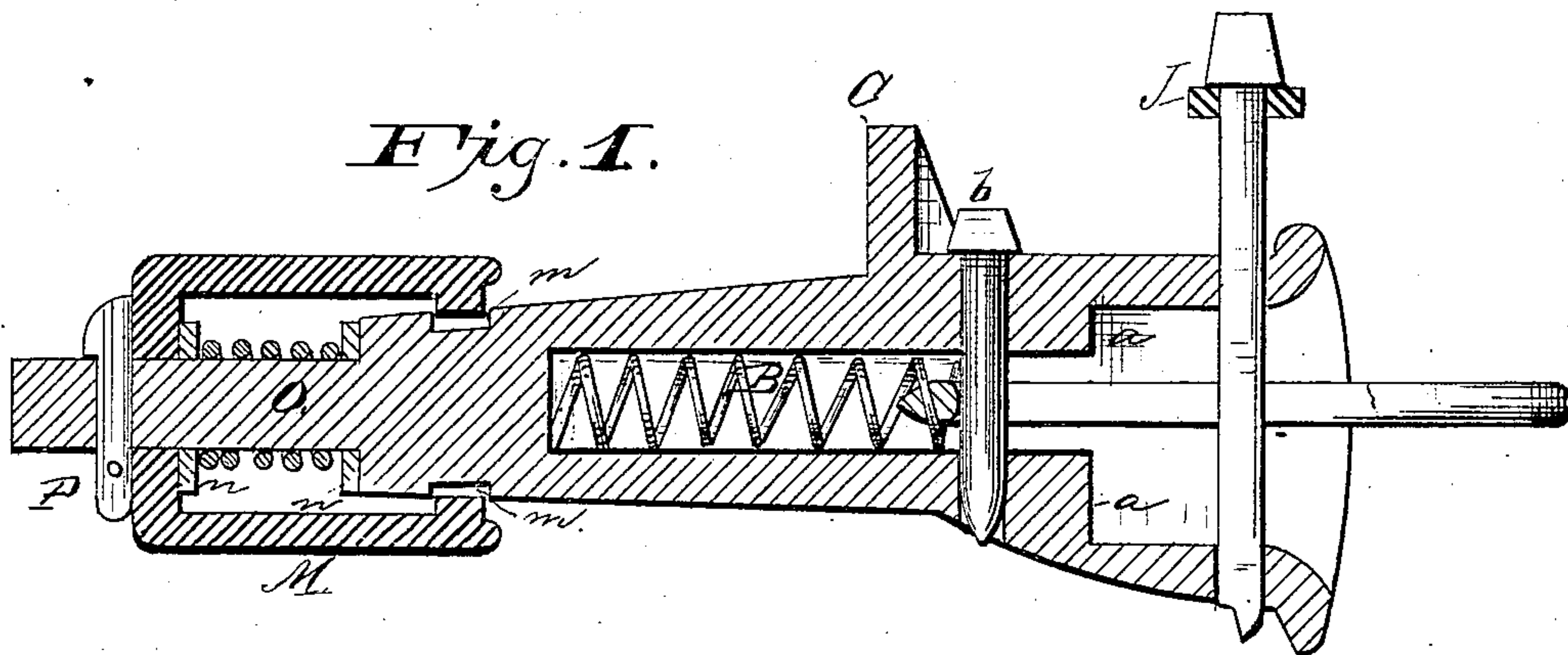
(No Model.)

J. L. WILLIAMS.

CAR COUPLING.

No. 284,937.

Patented Sept. 11, 1883.



Witnesses:

A. M. Burnham

E. M. Johnson

Inventor:

Jay L. Williams

[Signature]
Atty.

UNITED STATES PATENT OFFICE.

JAY LAMOTTE WILLIAMS, OF LONE TREE, IOWA.

CAR-COUPLING.

SPECIFICATION forming part of Letters Patent No. 284,937, dated September 11, 1883.

Application filed June 11, 1883. (No model.)

To all whom it may concern:

Be it known that I, JAY L. WILLIAMS, a citizen of the United States of America, residing at Lone Tree, in the county of Johnson and State of Iowa, have invented certain new and useful Improvements in Car-Couplers; 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 appertains 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 certain new and useful improvements in car-couplers; and it consists in the construction and combination of the parts, as will be hereinafter more fully set forth, and pointed out in the claims.

In the annexed drawings, which illustrate my invention, Figure 1 is a longitudinal section, and Fig. 2 is a side view.

A represents the draw-head, which is provided with the usual opening at its front end for the reception of the link, and the front perforation, through which the coupling-pin passes. At the rear of the front opening or mouth of the draw-head, as shown in Fig. 1, is formed an opening for the reception of a spring, this opening being preferably of a rectangular shape, or of a greater width than height. In this opening, which is indicated by the letter B, is placed a suitable coiled or spiral spring, and at a point rear of the steps *a a*, which are formed by this opening in the draw-head, is a perforation through which passes a supplemental pin, *b*. Upon the upper part of the draw-head is provided a raised projection, C, which abuts against the forward end of the car when the draw-head is in position. Over the front opening in this draw-head are standards S S, which carry a cross-bar, J, which has a rectangular opening formed in its upper portion, which frame serves to support the coupling-pin over the aforesaid perforations when the cars are uncoupled, the coupling-pin being provided with a step or notch at its lower portion which rests upon the upper part of the draw-head when the cars are uncoupled, so that the jar when the

cars come together will displace the pin, and it will be guided through the link into the lower perforation, thereby coupling the cars. The rear of the draw-head is provided on its upper and lower sides with notches *m*, as shown, and a rearwardly-extended circular portion, O. Over this portion O of the draw-head, so as to lie within the notches *m m*, is placed a suitable bail, M, which is perforated at its rear end. Within this bail and end of the draw-head are placed two transverse bars, *n n*, and an intermediate coiled spring, which encircles the extended portion of the draw-head, these parts being more securely held in position by the pin P, as shown. These transverse bars *n n* are secured to the car, so as to allow the draw-head a rearward spring movement when the cars come together, and when the cars are drawn forward the pressure will be upon the rear board and the bail M.

It will be seen from the foregoing construction that when the forward pin is raised it will be supported by the draw-head, and when the cars come together the same will be coupled automatically; and to guide the link in position it will only be necessary to allow the same to enter the opening at the rear of the mouth of the draw-head and insert the pin *b* through the link. Thus the link will be held in such a position that it will be guided into the draw-head of the adjacent car; also, that a sufficient spring movement will be allowed to the draw-head by the means hereinbefore described.

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

The draw-head A, provided with a forward link-receptacle and opening, B, having a spring located within the same, the standards S S, with cross-bar J and notched coupling-pin, and supplemental pin *b*, the parts being organized substantially as shown, and for the purpose set forth.

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

JAY LAMOTTE WILLIAMS.

Witnesses:

F. H. LANE,

RICHARD L. WILLIAMS.