

(No Model.)

J. F. HARRIS, Jr.
CAR COUPLING.

No. 582,058.

Patented May 4, 1897.

Fig. 1

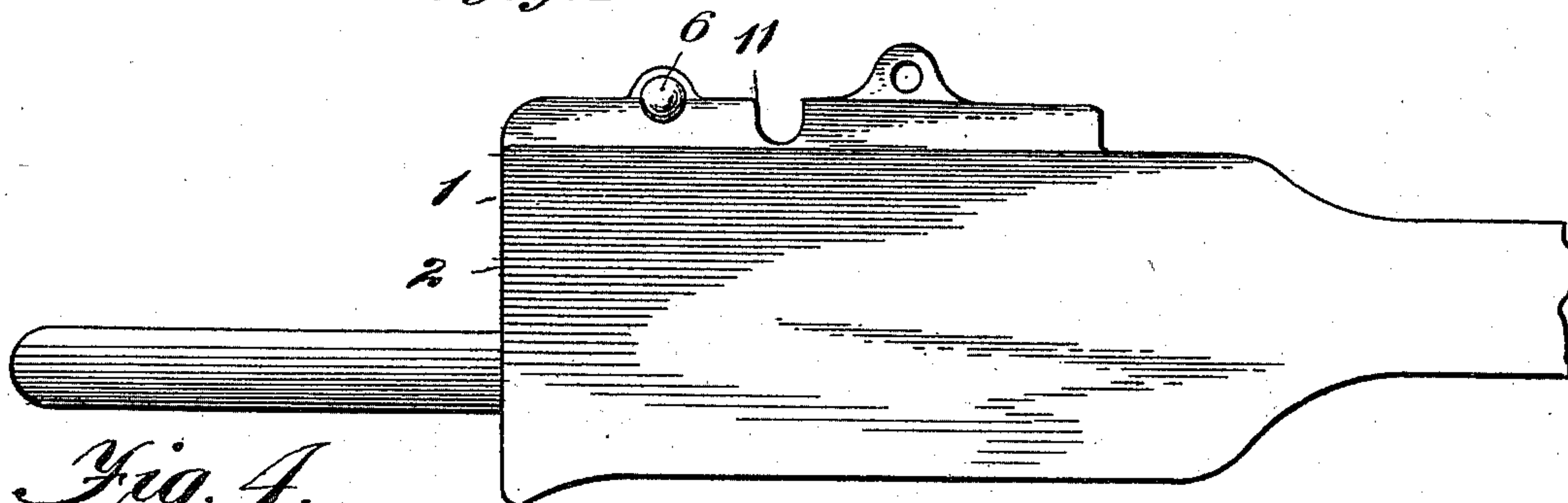


Fig. 4.

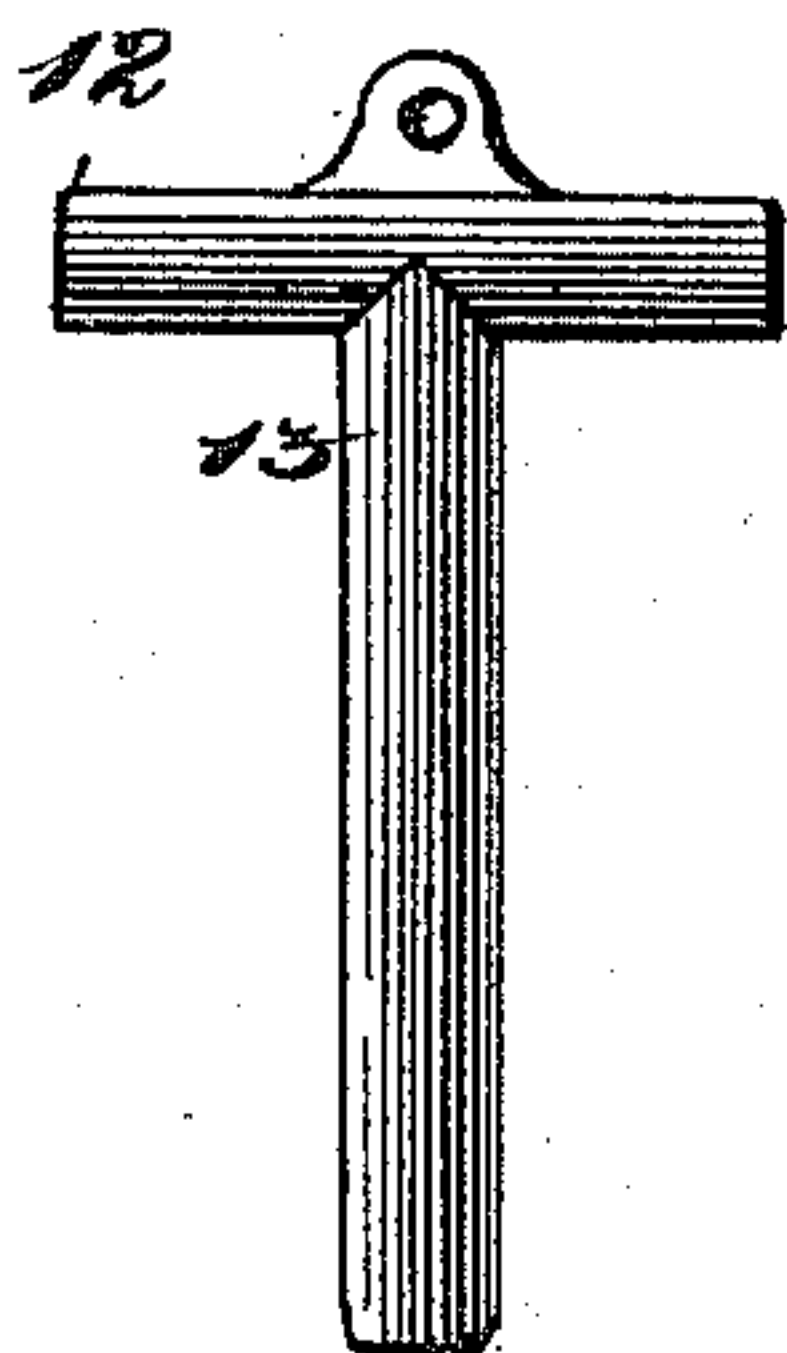


Fig. 2

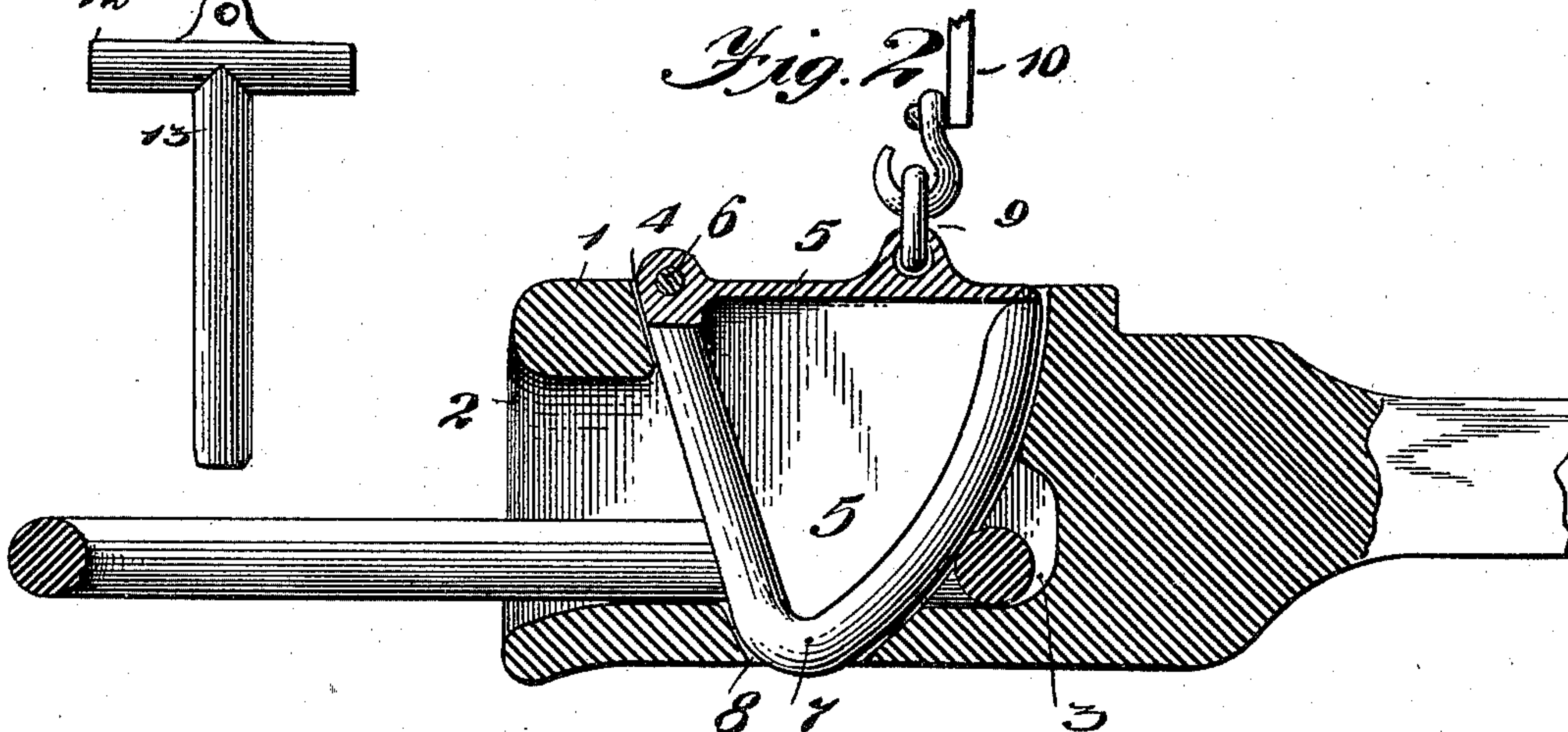
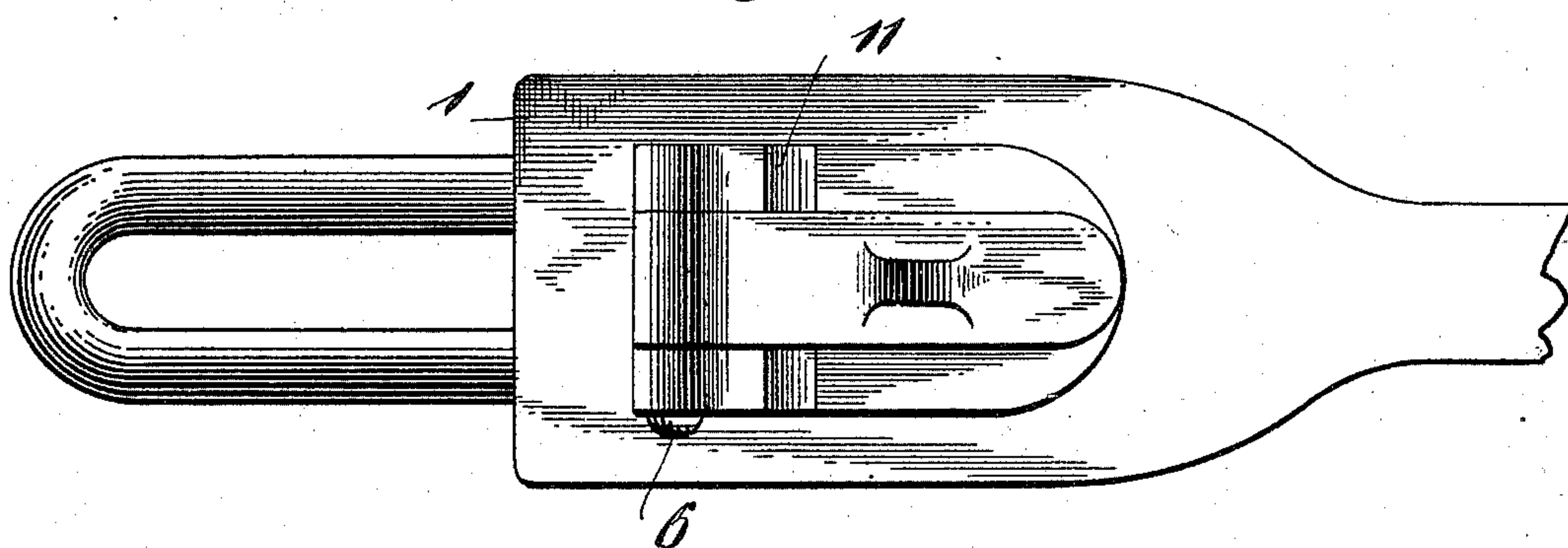


Fig. 3



WITNESSES

Edmund H. Stange

J. L. Tappan

INVENTOR

John F. Harris, Jr.
by John Wedduburn
Attorney

UNITED STATES PATENT OFFICE.

JOHN F. HARRIS, JR., OF FRACKVILLE, PENNSYLVANIA.

CAR-COUPLING.

SPECIFICATION forming part of Letters Patent No. 582,058, dated May 4, 1897.

Application filed October 7, 1896. Serial No. 608,089. (No model.)

To all whom it may concern:

Be it known that I, JOHN F. HARRIS, Jr., a citizen of the United States, residing at Frackville, in the county of Schuylkill and State of Pennsylvania, have 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 appertains to make and use the same.

This invention has reference to a novel construction in an automatically-acting car-coupler; and it consists in the features of construction hereinafter fully described and claimed.

In the accompanying drawings, forming a part of this specification, Figure 1 is a side elevation of a coupler constructed in accordance with this invention. Fig. 2 is a central vertical section. Fig. 3 is a top plan. Fig. 4 is a view of the coupling-pin.

Referring now to said drawings, 1 indicates the draw-head, having a recessed outer end 2 in the usual manner. In the rear end of this recess 2 is a pocket 3 to receive the end of the link. The upper wall of the draw-head is provided with an opening 4, through which the upper end of the locking-jaw 5 passes, said locking-jaw being pivoted to the upper portion of the draw-head by a transverse pin 6. The said locking-jaw 5 extends downwardly through the recess 2, and when at the lower limit of its movement rests against the rear face of said recess, while its lower end 7 is situated within an opening 8 in the lower part of the draw-head. Said locking-jaw 5 is free to turn on the pivot 6, so as to couple automatically, and to the upper end, that extends through the upper portion of the draw-head, is connected a chain 9, that is lifted by a suitable lever 10 upon the car for raising the locking-jaw. In the upper portion of the draw-head and on the opposite side of the rear end of the opening 4 are notches 11 to receive the lugs 12 of the coupling-pin 13, that can be used in case of breakage or injury to the coupling-jaw 7.

It will be seen from the foregoing description that when a link from another coupler enters the recess of the draw-head and strikes against the jaw 5 this jaw will rise to allow the end of the link to pass into the pocket 3, whereupon it will fall into the link and lock the same. It will be further noted that by means of the pocket 3 and the jaw 5 a link can be held in a practically horizontal position to be guided into a combined coupling. A car-coupler constructed in this manner is not only simple and inexpensive, but consists, practically, of three pieces—namely, draw-head, jaw, and pivot—and thus contains the desired features of a successful automatic car-coupler.

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

1. A car-coupler consisting of a recessed draw-head having a pivoted locking-jaw permanently connected therewith, and transverse notches in the upper face of said draw-head adjacent the forward end of the opening therein in which said locking-jaw is situated, said transverse notches being adapted to receive the head of a T-headed pin in the manner described.

2. A car-coupler consisting of a recessed draw-head having an opening in the upper and lower sides of said draw-head, a pivoted locking-jaw situated in said openings and said recess and permanently connected therewith, and transverse notches in the upper side of said draw-head near the forward end of the opening therein, said transverse notches being adapted to receive the head of a T-headed pin in the manner described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

JOHN F. HARRIS, JR.

Witnesses:

M. J. BEGLEY,
RICHD. AMOUR.