

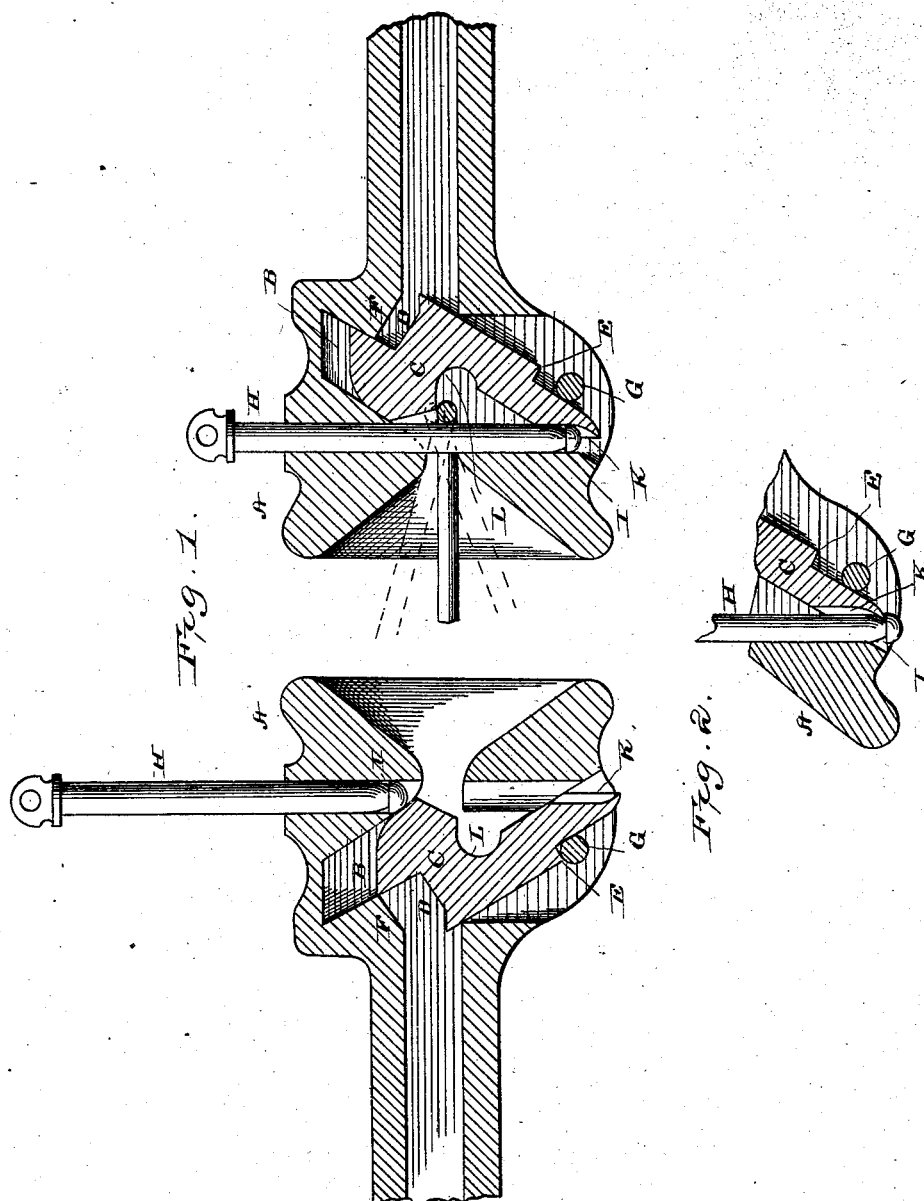
(No Model.)

R. M. BROOKS.

CAR COUPLING.

No. 259,804.

Patented June 20, 1882.



Witnesses.

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UNITED STATES PATENT OFFICE.

RHODOM M. BROOKS, OF JENKINSVILLE, GEORGIA.

CAR-COUPLING.

SPECIFICATION forming part of Letters Patent No. 259,804, dated June 20, 1882.

Application filed April 24, 1882. (No model.)

To all whom it may concern:

Be it known that I, RHODOM M. BROOKS, of Jenkinsville, in the county of Pike, and in the State of Georgia, 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 thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

This invention relates to certain improvements in car-couplers, and is an improvement upon the invention for which I made application for Letters Patent of the United States on or about the 6th day of March, 1882; and it has for its object to provide improved means of guiding the coupling-pin home and holding it when fully inserted against accidental removal, as more fully hereinafter specified. These objects I attain by the devices illustrated in the accompanying drawings, in which—

Figure 1 represents a longitudinal vertical sectional view of two draw-heads, showing my invention applied thereto; and Fig. 2 a detached section, showing the pin locked by the sliding dog.

The letter A indicates the draw-heads of the coupler, which are provided with flaring mouths to guide the link to the interior of the said coupling-heads. The coupling-heads are provided with oblique recesses B, in which are adapted to move the dogs or pawls C, which are provided with shoulders D E, the shoulders D being adapted to abut against bearings F in the draw-heads to limit their rearward movement, the shoulders E serving to abut against the pins G to limit their forward movement.

The letter H indicates the coupling-pins, which are provided with shoulders I near their lower ends, for the purpose hereinafter described.

The dogs at their lower ends are grooved, as indicated by the letter K, the extremities being beveled to a sharp edge in front, so as to engage the shoulders on the coupling-pins when fully down and hold the pin against accidental removal.

The operation of my invention is as follows:

When the cars are to be coupled the link is inserted in one draw-head, as indicated at the right of the drawings, the inner end setting under the edge of the recess L in the pawl or dog. The pin is then inserted, its point resting partly in the groove at the lower end of the dog or pawl and partly in the coupling-pin aperture. The coupling-pin in the draw-head at the left of the drawings rests upon the shoulder at the upper forward end of the dog or pawl. When the cars meet the link entering the draw-head at the left forces the dog or pawl of such draw-head back, dropping the pin through the link and downward through the draw-head, the lower end of the pawl engaging the shoulder near the end of the pin and holding it against accidental removal. The dog in the draw-head at the right is at the same time forced farther back by the link, which will drop the pin and permit said dog or pawl to engage its shoulder and hold it. It will be seen that when the pins are fully down the link will have full play in the recesses in the pawls or dogs.

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

1. The combination, with the draw-heads and the coupling-link, of the obliquely-moving pawls, grooved and beveled as described, and the coupling-pins, shouldered near their lower ends, the whole arranged, substantially as set forth, to drop and engage the coupling-pins and hold them when fully down against accidental removal.

2. In combination with the draw-heads, the obliquely-movable pawls or dogs grooved at their lower ends, and adapted to hold the pins in a partly-elevated position and the link in horizontal position during coupling, substantially as and for the purpose specified.

In testimony whereof I affix my signature, in presence of two witnesses, this 22d day of April, 1882.

RHODOM M. BROOKS.

Witnesses:

J. J. MCCARTHY,
CHAS. D. DAVIS.