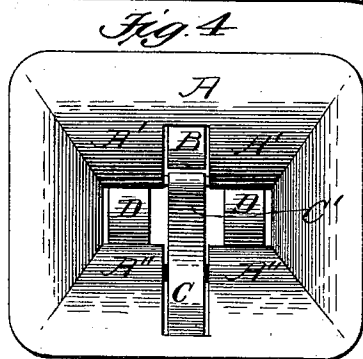
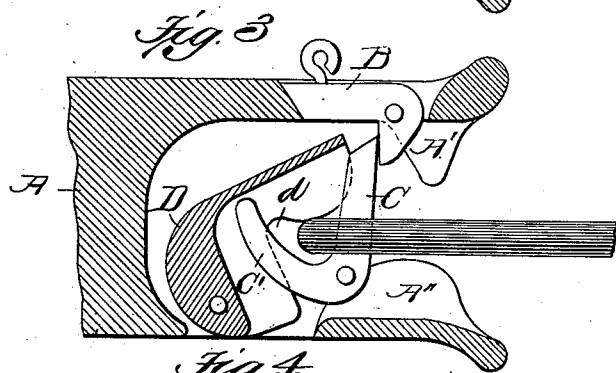
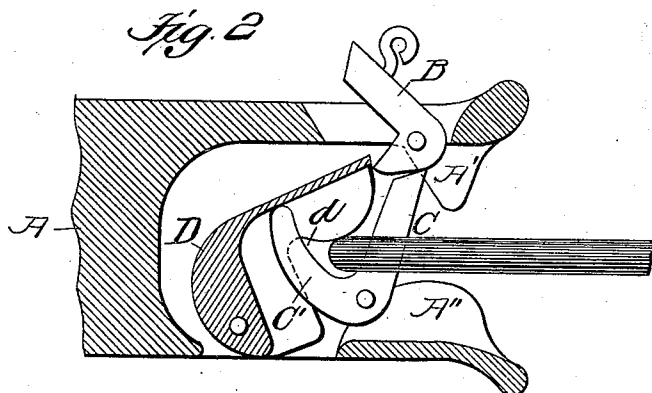
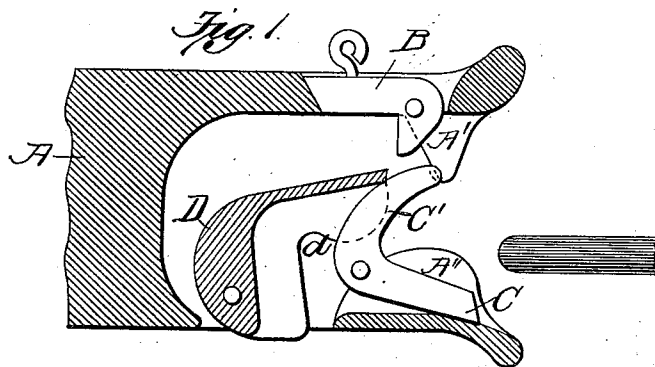


(No Model.)

W. B. BROWN.
CAR COUPLING.

No. 543,921.

Patented Aug. 6, 1895.



Witnesses
F. H. Cornwall
Wm. H. Wagner

Inventor
William B. Brown
by *Paul Bakewell*
his atty.

UNITED STATES PATENT OFFICE.

WILLIAM B. BROWN, OF LABADIE, MISSOURI, ASSIGNOR OF ONE-HALF TO
FRANK M. NORTH, OF SAME PLACE.

CAR-COUPLING.

SPECIFICATION forming part of Letters Patent No. 543,921, dated August 6, 1895.

Application filed February 13, 1895. Serial No. 538,198. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM B. BROWN, a citizen of the United States, residing at the town of Labadie, county of Franklin, State of Missouri, have invented a certain new and useful Improvement in Car-Couplers, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, wherein—

Figure 1 is a vertical sectional view illustrating my improved coupler, the parts being in a position to receive the link. Fig. 2 is a similar view illustrating the position of the parts while the link is being inserted. Fig. 3 is a similar view showing the position of the parts after the link has been received by the coupler. Fig. 4 is an end elevational view.

This invention relates to a new and useful improvement in car-couplers of that class which are especially adapted to hold the link in a horizontal position. The construction involves the use of the pivoted pin, a pivoted weight located to the rear of the pin, and a dog which is in the path of the pivoted pin for holding the same in an upright position after the link has been inserted, all as will hereinafter be described, and afterward pointed out in the claim.

In the drawings, A indicates a draw-head which is formed with an opening in its top, in which the pivoted dog is received. The draw-head is also provided at its front end with lips A' and A'', which are grooved about their middle portion to afford operating-space for the pivoted dog and pin, respectively.

B indicates a pivoted dog, the front face or nose of which is preferably formed inclined, the rear face of the long member having attached thereto an eye or hook whereby the same may be operated, which long member is also formed with an inclined end which co-operates with a corresponding incline in the draw-head. This permits the dog to be raised or the nose forced back, as shown in Fig. 2; but when the pin is in engagement therewith the dog is in a locked position, as shown in Fig. 3.

C indicates a pivoted pin, the forward member of which rests in the groove between the lips A'' when the coupler is in an unlocked position, as shown in Fig. 1. The forward end of this member is formed with an inclined face, which strikes the nose of the dog in its path when being operated, and riding past said nose is locked therebehind, as shown in Fig. 3. C' is the other member of the pivoted pin, and is arranged at about right angles to the member just referred to. When the link is inserted it is elevated, depressed, or guided by the lips A' A'' to contact with the member C' of the pin, which it forces backward, as shown in Fig. 2, until the front member of the pin is behind the nose of the dog, when the link is locked.

To hold the link in a horizontal position, to obviate handling by the brakeman, I pivot in the rear of the opening in the draw-head a block D, which is recessed at its forward under side, permitting the member C' of the pin to operate therein. The front end of this block is formed with curved faces, immediately behind which the sides of the block are recessed, as at d, to more readily receive the link.

The operation of the device is clearly illustrated in the drawings, and a detailed description need not be given here.

Attention will be called to the fact that the forward end of the block D rests upon the rear curved face of a member C' of the pin, so that when the pin is actuated, as shown in Fig. 2, the block D is raised to receive the link under its forward end. When the pivoted pin is locked in position the forward end of the block has freedom of movement to such an extent that the link is pressed down at its rear end so as to hold it in a horizontal position, the forward end being supported by the lips A''.

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

In a car coupler, the combination with a suitable draw-head, a pin pivoted in the lower forward portion of the head, said pin comprising two members, C and C', a dog B ar-

5 ranged in the upper part of the head, with
which member C of the pin co-operates, and
a block D pivoted in the rear of the head,
which block is recessed in its middle and at
its forward under side, permitting member C'
of the pin to operate therein, the block, when
the coupler is set, resting upon the outer end
of member C', said block being also formed
with side projections at its front end, which
10 bear upon the link for holding it in a horizon-

tal position, and with recesses *d* behind said
projections, to receive the link; substantially
as described.

In testimony whereof I hereunto affix my
signature, in presence of two witnesses, this 15
2d day of February, 1895.

WILLIAM B. BROWN.

Witnesses:

J. HUNDHAUSEN,
FRANK M. NORTH.