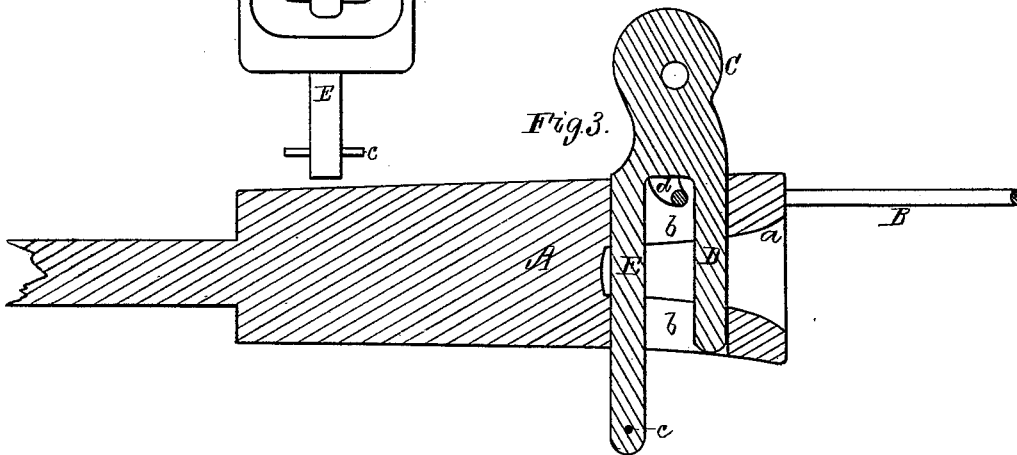
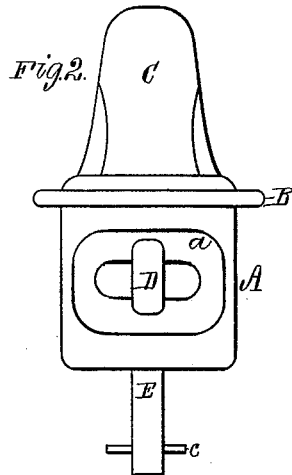
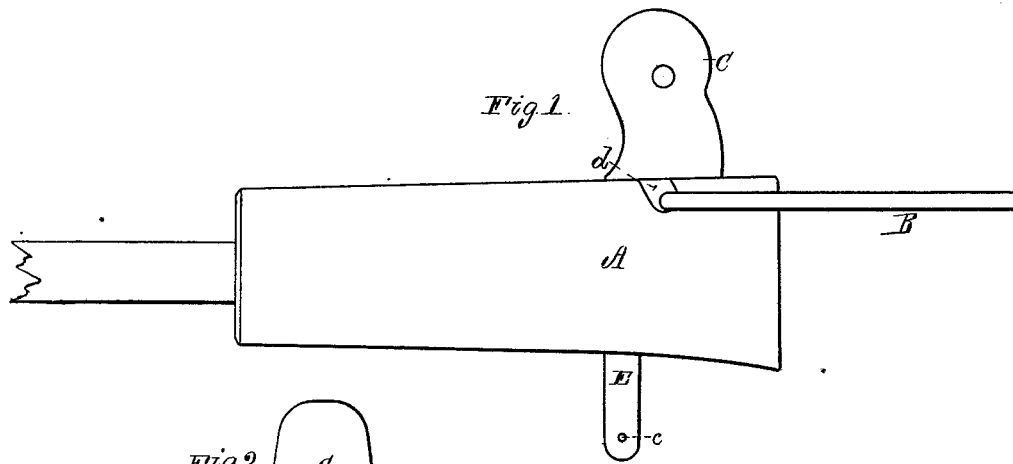


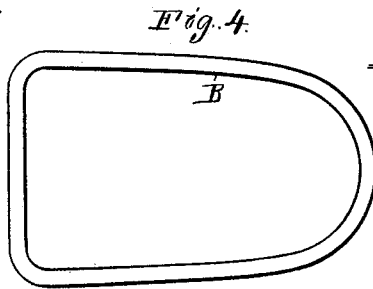
W. DORR.
Car-Coupling.

No. 203,011.

Patented April 30, 1878.



Witnesses.
S. N. Piper
L. W. Miller



Inventor
Warren Dorr
by his attorney
R. H. Sedy

UNITED STATES PATENT OFFICE.

WARREN DORR, OF GARDINER, MAINE.

IMPROVEMENT IN CAR-COUPLINGS.

Specification forming part of Letters Patent No. **203,011**, dated April 30, 1878; application filed March 14, 1878.

To all whom it may concern:

Be it known that I, WARREN DORR, of Gardiner, in the county of Kennebec, of the State of Maine, have invented a new and useful Improvement in Railway-Car Couplings; and do hereby declare the same to be described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 is a side view, Fig. 2 a front end view, and Fig. 3 a longitudinal section, of one of my improved couplings, as applied to a draw-bar of a railway-carriage.

My present invention relates to couplings whose draw-bars are furnished with yokes, and with coupling-heads or projections to engage with such yokes, such draw-bars not only having mouths to receive a common coupling-link, but pins to couple with or go through it.

In carrying out my invention, I fix the yoke-coupling head directly to the link-pin at its upper end, and I provide the said head with an auxiliary pin, to extend down from it through the draw-bar. I make in the upper part of the draw-bar, and back of the link-pin, or between it and the auxiliary pin, a hooked notch, to receive and hold the yoke, all being essentially as hereinafter explained. By such construction and arrangement of the parts important advantages are gained. The yoke-coupling head, instead of being fastened to the draw-bar, is separate therefrom, and fixed to the link-pin, thereby serving by its weight to keep the said pin in place, and, besides, when furnished with the auxiliary pin, provided at its lower end with a stop, as shown. Such head prevents the link-pin from being drawn out of the draw-bar and lost. Other advantages also result from my invention.

In the drawings, A denotes the draw-bar, provided with a coupling-link receiving-mouth, *a*, and also with a yoke, B, the latter being to hitch upon a head, C, which, in this machine, is separate from the bar, and fixed to the upper end of the link-coupling pin D, that slides down through and out of the link-mouth *a*.

There is also to the said head an auxiliary pin, E, which projects down from it, goes through a hole or slot, *b*, in the draw-bar, and projects some distance below the bar. There is to such auxiliary pin, at or near its lower end, a stop or pin, *c*, to prevent the auxiliary pin from being drawn up farther than to admit of the link-pin rising out of the mouth *a*.

In the upper part of the draw-bar is a hooked notch, *d*, which is disposed between the pins D E, and receives the straight end of the yoke, such yoke being formed as shown in top view in Fig. 4. The head may be perforated, as shown, to admit of a chain or rope being fixed to it, such being to effect the raising of the link-pin in the draw-bar.

The head is to couple with the yoke of a fellow or other draw-bar, when the two are connected by a link and their two coupling-pins.

I claim as my invention, as follows—that is to say:

1. In the car-coupling provided with the yoke, the coupling-head fixed to the link-pin, as set forth.

2. In the car-coupling provided with the yoke, the coupling-head fixed to the link-pin and provided with the auxiliary pin, extending down through the draw-bar, as set forth.

3. The draw-bar provided with the yoke-notch, arranged in it as shown, in combination with the yoke-head fixed to the link-pin or provided therewith, and with an auxiliary pin, arranged as set forth.

4. The combination of the draw-bar provided with the yoke-notch, with the yoke arranged therein, and with the yoke-head fixed to the link-pin, all being substantially as set forth.

5. The combination of the notched draw-bar, the yoke, the yoke-head, and the two pins, all arranged and applied essentially in manner and to operate as specified.

WARREN DORR.

Witnesses:

HENRY FARRINGTON,
HENRY G. WHITE.