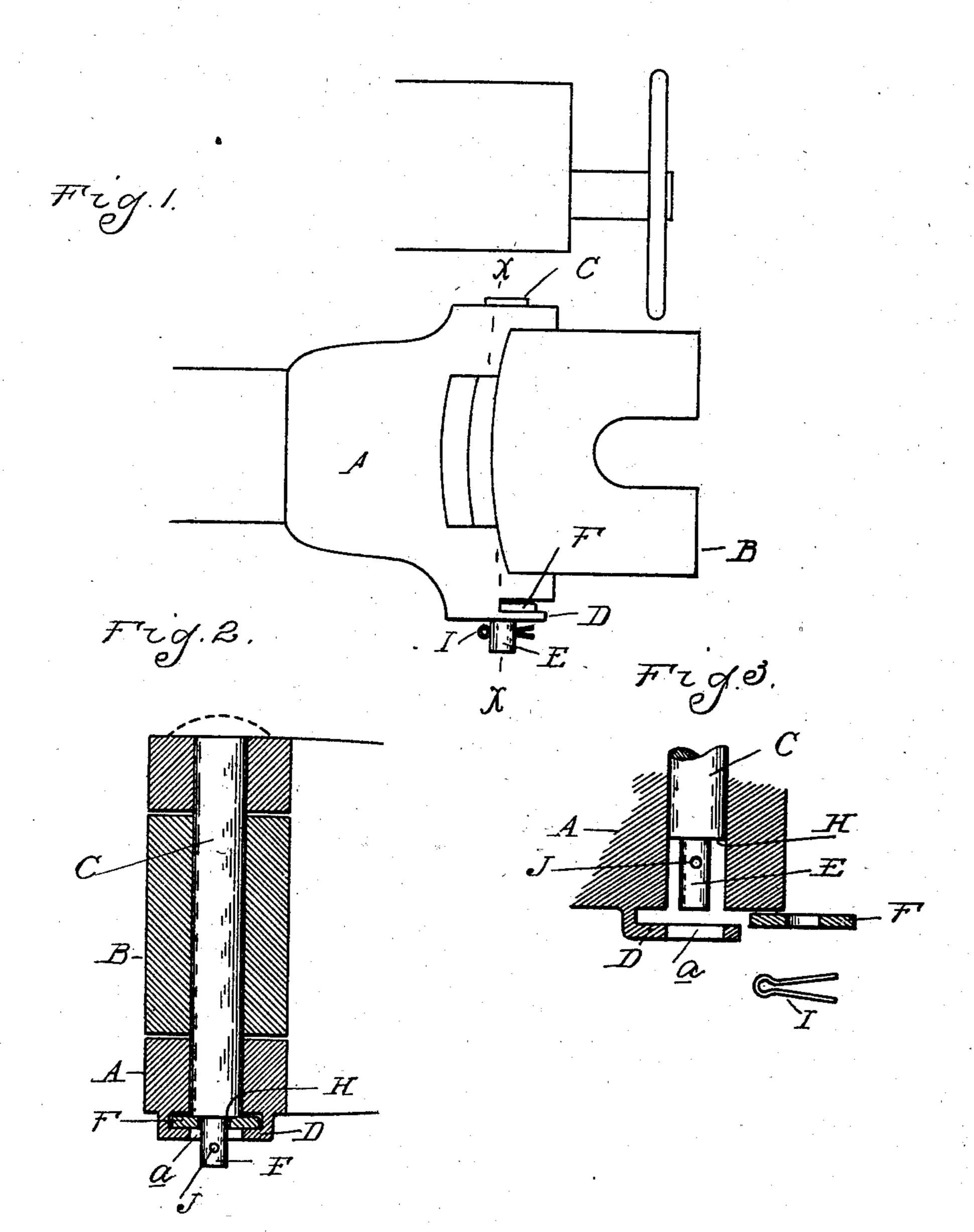
No. 702,186.

Patented June 10, 1902.

J. A. CHUBB. CAR COUPLING.

(Application filed Jan. 14, 1902.)

(No Model.)



Witnesses, 18.C.Smith.

James A. Chubb By MM Jusque Hor Attys.

United States Patent Office.

JAMES A. CHUBB, OF DETROIT, MICHIGAN, ASSIGNOR OF TWO-THIRDS TO DELMAR C. ROSS AND EDMUND D. BRONNER, OF DETROIT, MICHIGAN.

CAR-COUPLING.

SPECIFICATION forming part of Letters Patent No. 702,186, dated June 10, 1902.

Application filed January 14, 1902. Serial No. 89,707. (No model.)

To all whom it may concern:

Be it known that I, JAMES A. CHUBB, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, 5 have invented certain new and useful Improvements in Car-Couplers, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention relates generally to car-coup-10 lers, and particularly to a fulcrum-pin for the swinging jaw of the coupler; and the invention consists in a support for said pin, as more fully hereinafter described, and particu-

larly pointed out in the claim.

In the drawings, Figure 1 is a side elevation of a car-coupler, showing my improvement applied thereto. Fig. 2 is a vertical section on line xx, Fig. 1. Fig. 3 is a section through the lower end of the fulcrum of the draw-bar, 20 illustrating the manner of removing the pin.

The present practice of railways is to build couplers having a swinging jaw hinged to the having a head resting on top of the draw-bar, 25 and necessitating its removal upwardly. In freight-cars there is no difficulty in doing this; but in passenger-cars the present form of buffers overhangs the fulcrum-pin, so that to remove the pin it is necessary to remove 30 the buffer or the draw-bar from the car.

One of the features of my invention consists in providing a detachable support for the pin below, which when withdrawn permits of removing the pin downwardly, the pin in 35 this case being made without the head, and the means by which I do it is simple and inexpensive and without weakening the fulcrum-pin.

A represents the draw-bar, B the swinging 40 jaw, and C the fulcrum-pin, and I show in dotted lines in Fig. 2 the usual form of head |

on the pins now in use.

For use in connection with passenger-cars the pin is plain, the head being omitted. On 45 the lower face of the draw-bar, beside the fulcrum-pin, I form, preferably by casting integral with the draw-bar, the bracket D, having an aperture a in line with the fulcrumpin of a size to permit its passage there-50 through. I provide the fulcrum-pin with the reduced lower end E, which for convenience

of reference I call a "pintle," and a washer F, having an aperture permitting the passage of the pintle therethrough, these parts being shown in Figs. 2 and 3. The fulcrum-pin be- 55 ing inserted in place and lifted a little, so that the washer F may be inserted on the bracket D, the pin is again lowered, its pintle passing through the aperture in the washer, and the shoulder H on the fulcrum-pin, 60 around the pintle, resting on the washer. The pintle thus holds the washer on the bracket and supports the pin in position. This is all that is required; but I may for security insert the split pin I through an aper- 65 ture J in the pintle to prevent the possibility of the pintle jumping out of the washer. To remove the fulcrum-pin, it is only necessary to lift the pin until its pintle clears the washer, remove the washer, and then remove the pin 70 downwardly.

A support for the fulcrum-pin as set forth not only allows the pin to be downwardly redraw-bar by a vertical fulcrum-pin, the pin | moved when the pin is headless or plain, but also in case of the breakage of the pin retains 75 the parts thereof in position in the coupler, and thus in many cases prevents the couplers from separating. As the liability of breakage of the pin is as great, if not greater, in freight-cars than passenger-cars, it will be ob- 80 vious that a support for the pin is desirable for the couplers in both types of car. In freight-cars, however, as no difficulty is experienced in removing the pin upwardly, the usual headed pin may be employed and the 85 support may be rigid instead of detachable, as heretofore described.

What I claim as my invention is—

In a car-coupler, the combination of the draw-bar, the swinging jaw, an apertured 90 bracket secured to and projecting beneath the bar, a laterally-removable washer mounted upon the bracket, and the fulcrum-pin supported at its lower end upon the washer and carrying a pintle extending through the 95 washer and bracket.

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

JAMES A. CHUBB.

Witnesses:

M. B. O'DOGHERTY, H. C. SMITH.