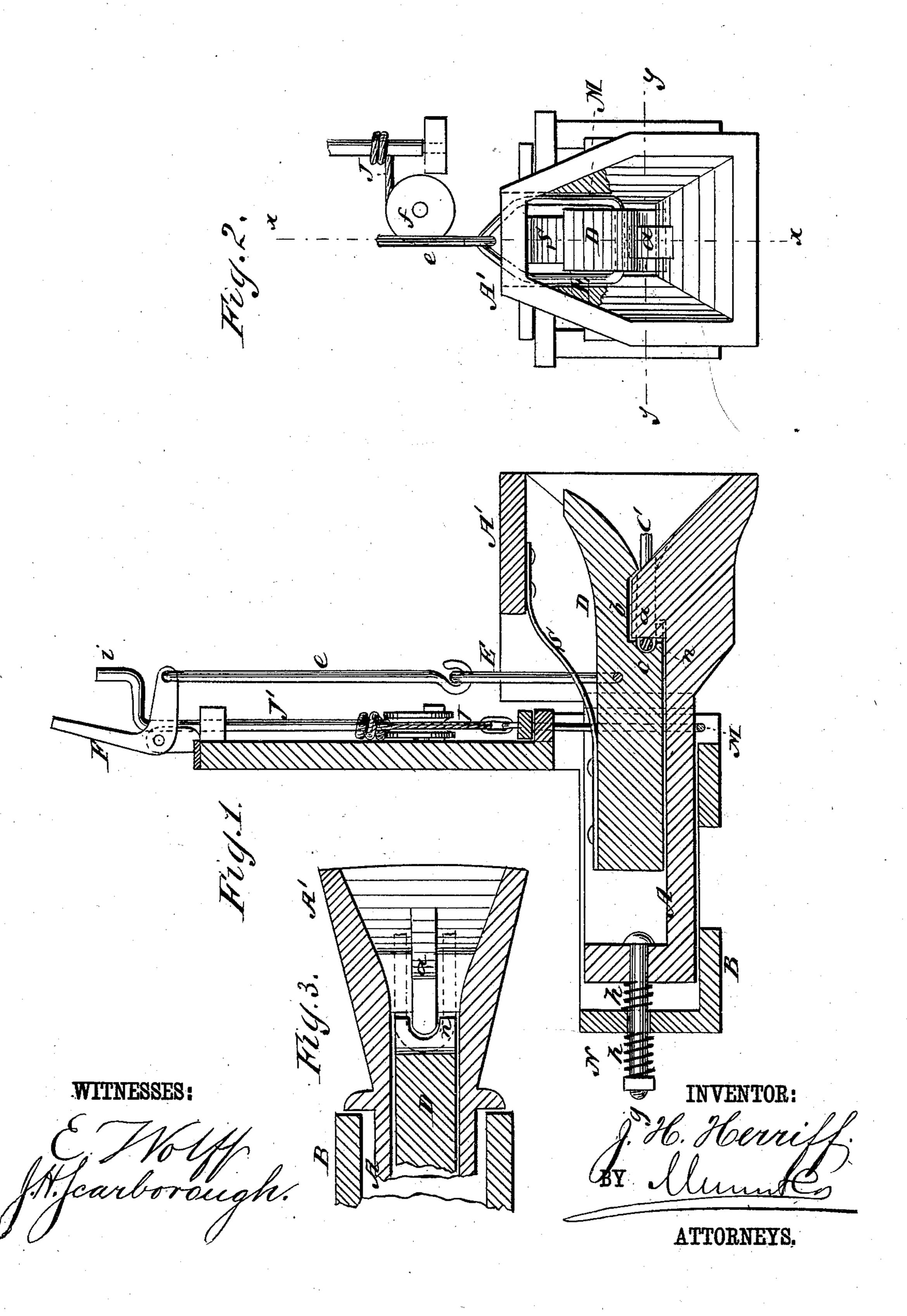
J. H. HERRIFF.
Car Coupling.

No. 201,669.

Patented March 26, 1878



UNITED STATES PATENT OFFICE.

JONAS H. HERRIFF, OF CITY BLUFF, MISSOURI.

IMPROVEMENT IN CAR-COUPLINGS.

Specification forming part of Letters Patent No. 201,669, dated March 26, 1878; application filed October 31, 1877.

To all whom it may concern:

Be it known that I, Jonas H. Herriff, of City Bluff, in the county of Nodaway and State of Missouri, have invented a new and Improved Car-Coupling, of which the following is a specification:

The invention will first be described in connection with the drawings, and then pointed

out in the claims.

In the annexed drawings, Figure 1 is a vertical section taken longitudinally through one end of a car having my improved coupling applied to it. Fig. 2 is a front view of the coupling. Fig. 3 is a section taken horizontally through the front end of the drawbar on its coupling-hook, in the plane indicated by the dotted line y y on Fig. 2.

Similar letters of reference indicate corre-

sponding parts.

The letter A designates the shank of a draw-bar, which is guided in a box, B, and constructed with an open outwardly-flaring head or mouth, A', that is angular in shape, and adapted to receive the link C and guide it to its place behind a central steel fin, a, that may be replaced when worn, rising from the floor of the draw-bar.

D designates a coupling-hook, the upper side of which is connected by a curved spring, S, to the roof of the flaring portion A' of the draw-bar. This coupling-hook is constructed | with an upwardly-directed front end, in rear of which is a longitudinal groove, b, to receive the fin a, and a transverse groove, c, to receive the link C when one end of it falls behind the said fin.

The coupling-hook D has attached to it a bail, E, which, by means of a connecting-rod, e, and an angular lever, F, on the end of the car, will allow the front end of the couplinghook to be raised.

During the act of raising the front end of the coupling-hook D to effect an uncoupling, the lip n beneath the transverse groove c will

lift the end of the link over the rear end of the fin a. When a coupling is effected, the fin a and grooved coupling-hook D will prevent a casual detachment of the link.

The rear end of the draw-bar A is connected to the box B or its equivalent by means of a loose bolt, g, which passes through a cross-beam, N, and is inclosed on opposite sides of this beam by means of springs h h of metal, india-rubber, or other elastic material. These springs prevent shocks in starting or

stopping cars.

The draw-bar is suspended from a chain, J, by means of a stirrup, M. arranged between suitable guides, and allowed to receive free vertical movement. The chain J is passed over a grooved pulley, f, and around a vertical rod, J', which is free to turn in journal-boxes fixed to the end of the car. The brakeman can raise or lower the coupling end of the draw-bar by grasping the crank i on the upper end of the rod J' and turning this rod.

The support of the link on floor of drawhead is arranged to act as a fulcrum, so that, in case a car should fall from the track or through a bridge, it raises the end of the link which is fastened to the car which remains on the track against coupling-hook D, thereby lifting itself over the fin a, when the car will be free from the balance of the train.

Having thus described my invention, I claim as new and desire to secure by Letters Pat-

ent—

1. A hook, D, held by a spring, S, in drawbar, in combination with bail E, rod e, and bent lever F, as and for the purpose set forth.

2. The draw-bar A, suspended by a stirrup, M, chain J passing over pulley, and rotary rod J', as and for the purpose specified.

JONAS HARTZELL HERRIFF.

Witnesses:

J. F. MONTGOMERY,

J. W. Jones.