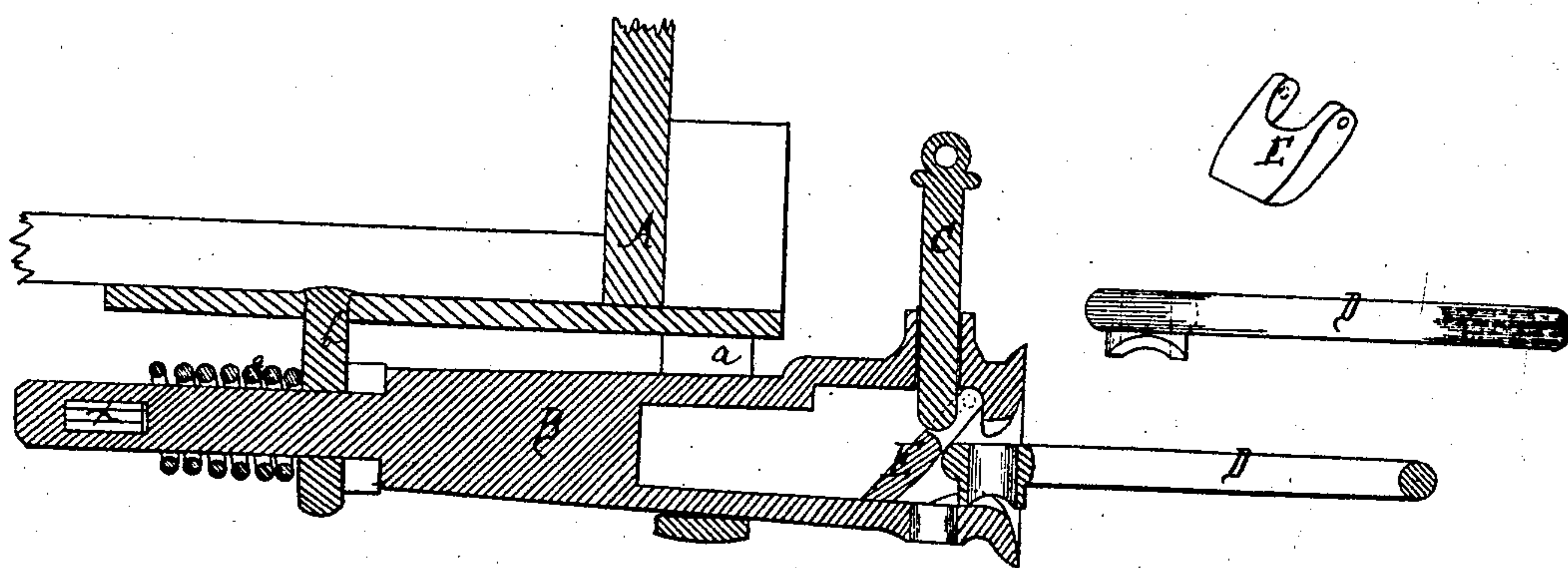
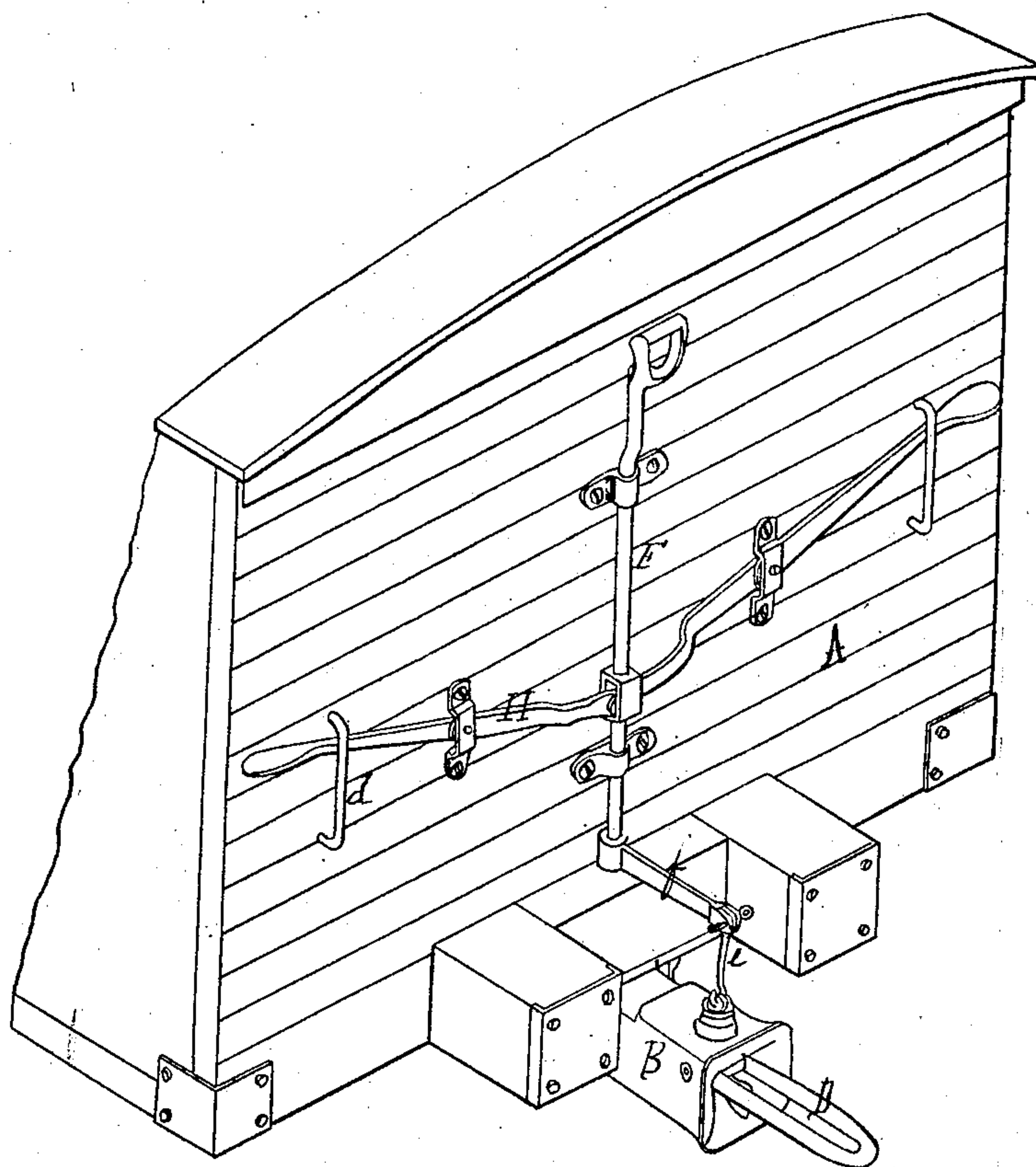


W. H. HOOVER.
CAR COUPLING.

No. 75,270.

Patented Mar. 10, 1868.



Witnesses
V. D. Stokbridge
G. & C. P. R. H.

Inventor
W. H. Hoover
per
Alexander M. Mason
att'y

United States Patent Office.

WINFIELD H. HOOVER, OF NORTH BENTON, OHIO.

Letters Patent No. 75,270, dated March 10, 1868.

IMPROVEMENT IN CAR-COUPLING.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, WINFIELD H. HOOVER, of North Benton, in the county of Mahoning, and in the State of Ohio, have invented certain new and useful Improvements in Car-Couplings; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and the letters of reference marked thereon.

In the annexed drawings, making a part of this specification, A represents one end of an ordinary freight-car, provided with staples or metallic loops *a* and *b*, for the drawhead B to work in. B represents a drawhead, secured to the car A by means of the metallic loops *a* and *b*, and has a spiral spring, *c*, embracing the end behind the loop *b*, and between it and a pin passing through a slot, *x*, by which the drawhead B is secured and held in the loops *a* and *b*, and thereby to the car A.

The drawhead B has a bevelled or flaring mouth, so as to guide the link D to the proper place beneath the pin C. Within the mouth of the drawhead B is pivoted, at the top, a peculiar-shaped drop, E, which is made with two forks or flanges, forming a half circle, and having the front side, at the bottom, bevelled, so as to rest firmly on the under side of the opening in the drawhead. The drop E is pivoted so that when its lower end is raised up to a horizontal position the forks thereof embrace and surround the hole in which the coupling-pin C is placed, and allows said pin to pass down through the link D and lower side of the drawhead B.

When the link D is withdrawn, and the pin C raised up, the drop E falls down so that it obstructs the hole for the coupling-pin, and forms a rest therefor on the upper side of the curve made by the forks thereof, and holds said pin until it (the drop) is again elevated by means of the link D.

D represents a peculiar-shaped link, made with a shoulder and hole at one end, the shoulder corresponding with a groove in the under side of the drawhead B, for the purpose of holding said link firmly in its position, and the hole for the coupling-pin to pass through and hold the link from being pushed back too far into the mouth of the drawhead.

F represents a movable vertical bar, provided with a loop at the top, for a handle, and secured to the end of a car, A, by means of staples, and reaching to the top of the car. The bar F has attached to it, at the lower end, a horizontal arm, *f*, which has pivoted to the outer end of it a hook, *e*, which hooks into a hole in the top of the coupling-pin C.

H H represent levers, which are both pivoted to the vertical bar F and to the end of the car A, their outer ends working in and held in place by means of staples *d d*. These levers H H are for the purpose of raising the bar F, and thereby the coupling-pin C, and thus uncouple the cars, without getting between the ends of the cars, and thereby endangering the life of the operator. The cars may be uncoupled by means of the handle at the top of the bar F by a person on top of the cars.

When the cars are uncoupled by this or any other means, the drop E falls down, and thereby holds the pin C up until the end of the link D is inserted in the mouth of the drawhead B, and displaces said drop when the pin drops through the link and under side of the drawhead.

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

The combination of the pivoted drop E, link D, pin C, and drawhead B, when operated by the bar F, with its side levers H H, all constructed and used substantially as and for the purposes set forth.

In testimony that I claim the foregoing, I have hereunto set my hand, this 23d day of December, 1867.

WINFIELD H. HOOVER.

Witnesses:

C. M. HOOVER,

C. S. TIBBALS,