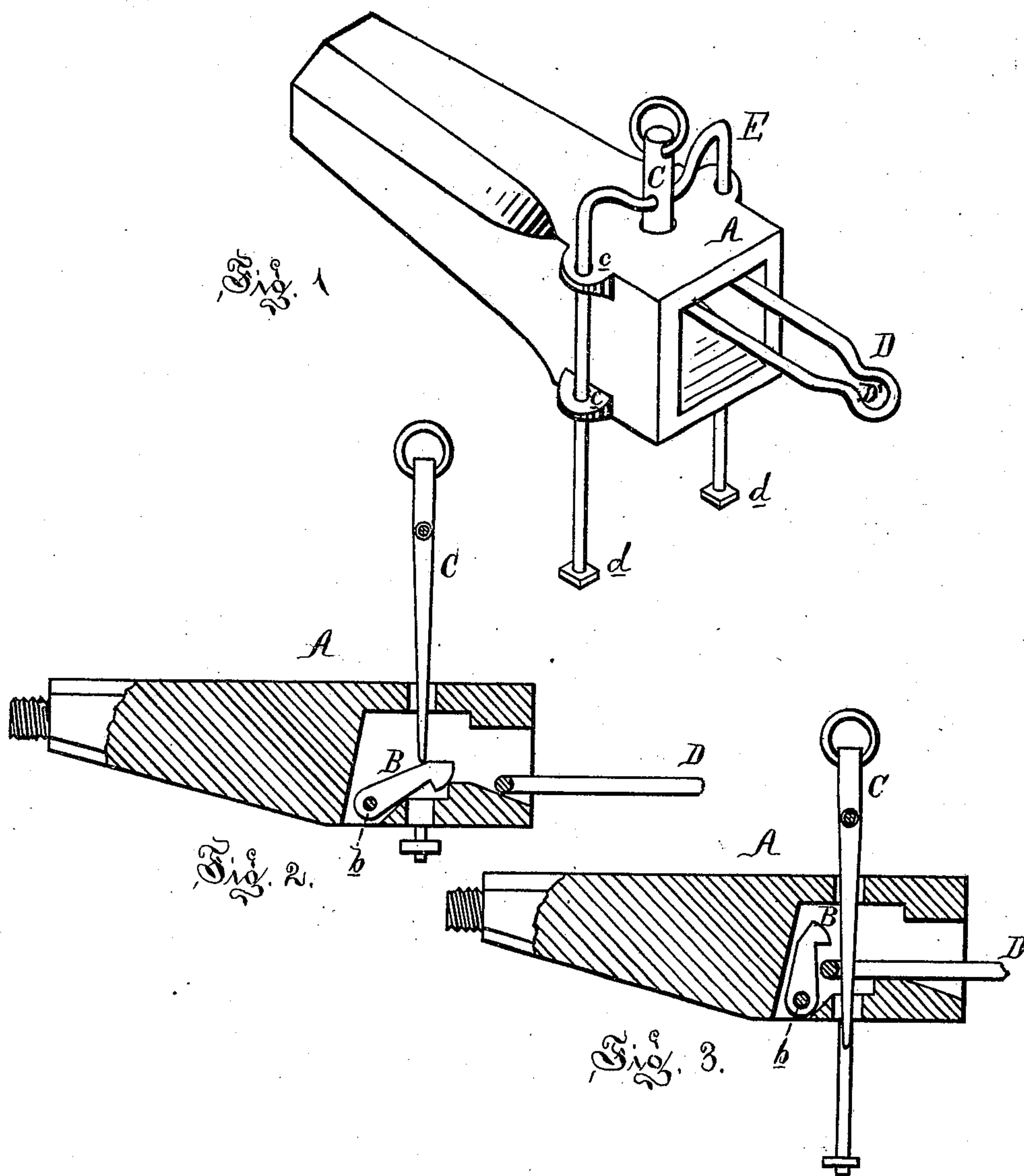


O. M. COLE.  
Car-Coupling.

No. 197,458.

Patented Nov. 27, 1877.



Attest:  
H. L. Aulls,  
Notary Public

Inventor:  
O. M. Cole  
By Atty  
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# UNITED STATES PATENT OFFICE.

OSCAR M. COLE, OF PORTLAND, MICHIGAN.

## IMPROVEMENT IN CAR-COUPPLINGS.

Specification forming part of Letters Patent No. **197,458**, dated November 27, 1877; application filed June 23, 1877.

*To all whom it may concern:*

Be it known that I, OSCAR M. COLE, of Portland, in the county of Ionia and State of Michigan, have invented an Improvement in Car-Couplings, of which the following is a specification:

The object of my invention is to construct the draw-heads of railway-cars in such a manner that each will engage an entering link when set for that purpose, and also to provide it with a means for lifting the pin for uncoupling two cars without going between them for that purpose.

The invention consists in the peculiar guide-rod, and in the peculiar construction of the coupling-link, as fully hereinafter explained.

Figure 1 is a perspective view. Fig. 2 is a longitudinal vertical section, showing the pin raised. Fig. 3 is a similar section after coupling is effected.

In the drawings, A represents a draw-head, having a tumbling-latch, B, pivoted by a pin, *b*, in the lower inner end of the socket, and which, if free, will fall forward in the path of the coupling-pin C, which it sustains, as seen in Fig. 2, until pushed in by the end of an entering link, D, whereupon the pin C will fall through the link, and thus couple the cars together.

To guide the pin, a rod, E, is passed through an eye just below its head, and then bent down, so as to pass through two guide-lugs, *c*

*c*, cast on each side of the draw-head, with nuts or other stops *d* at the lower extremities to prevent the pin from being withdrawn from the draw-head. The guide-gate E affords a means for raising the pin from either side of the car through a lever or other device, while a chain from the head of the pin to the top of a freight-car enables the trainmen to uncouple from above.

The link D has an eye, D', formed at one end, just large enough to receive the body of the pin, by closing in its sides. This is done in order to have the link held in a horizontal position, so as to present it fairly to an opposing draw-head.

What I claim as my invention is—

1. The combination, with the draw-head A and pin C, of the guide-rod E, bent into the form shown, and passed through the pin below its head, and through lugs *c* on the sides of the draw-head, and the stops *d* on the ends of said rod, constructed and arranged substantially as described and shown.

2. The link D, having its sides closed together near one end to form an eye, D', constructed and arranged substantially as described and shown.

OSCAR M. COLE.

Witnesses:

H. F. EBERTS,  
H. S. SPRAGUE.