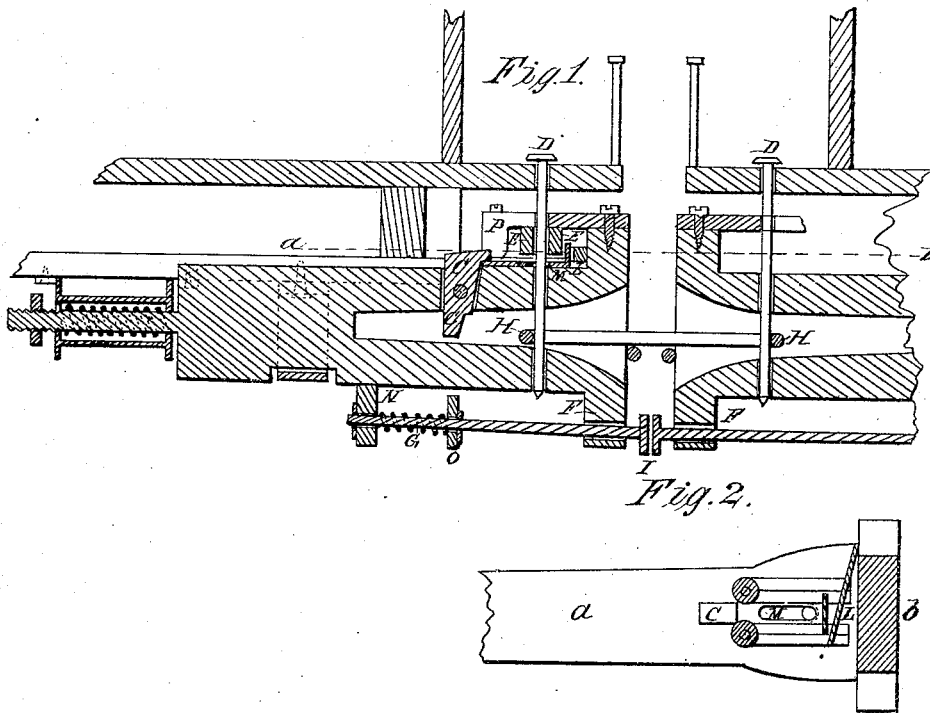


L. W. POWLS.  
Car-Coupling.

No. 163,806.

Patented May 25, 1875.



Witnesses

Josiah Warner  
Aaron Gurney

Inventor

Lewis W. Powls  
Chapman & Howe, Attys.  
atty.

# UNITED STATES PATENT OFFICE.

LEVI W. POWLS, OF VALPARAISO, INDIANA, ASSIGNOR OF ONE-HALF HIS  
RIGHT TO F. W. HUNT, OF SAME PLACE.

## IMPROVEMENT IN CAR-COUPPLINGS.

Specification forming part of Letters Patent No. **163,806**, dated May 25, 1875; application filed  
February 26, 1874.

*To all whom it may concern:*

Be it known that I, LEVI W. POWLS, of Valparaiso, in the county of Porter and State of Indiana, have invented a new and Improved Method of Car-Coupling; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing, and the letters of reference thereon.

The object of my invention is to provide a means by which cars can be coupled without exposing the person to the danger of being caught between the cars and injured, and to make car-coupling automatic.

To accomplish this, I keep the pin in a perpendicular position, and prevent it from being thrown out by any shock or jar by means of a tumbler, E, between the draw-bar and platform, and hold it in its place, by a bridle, P, screwed down at one end to the draw-bar, and at the other end to the rim of the bunter.

I hold up the coupling-pin, until the proper time for it to drop, by means of a slide, M, which covers about one-fourth of the hole through which the pin passes at the side next to the mouth of the bunter. I shape the pin

so that but a small portion passes the slide, and then it is arrested.

I remove the slide from under the pin, and permit the pin to fall by means of a sentinel-post, C, working on a pivot against the slide at the top, and intend the bottom to be struck and pressed back by the link. The top presses forward the slide, and, uncovering the hole, permits the pin to fall. The slide is returned to position when the pressure of the link is removed, and the pin drawn up by a suitable spring, L.

I have a ring in the top of the coupling-pin, and use either the hand from the platform or a lever from the side of the car to lift it.

What I claim as new, and desire to secure by Letters Patent, is—

In combination with the coupling-pin D, the slide M, spring L, and pivoted sentinel-post C, all substantially as and for the purpose set forth.

LEVI W. POWLS.

Witnesses:

A. D. BARTHOLOMEW,  
JOHN W. HAYDEN.