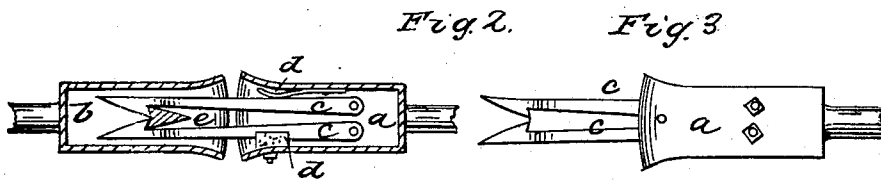
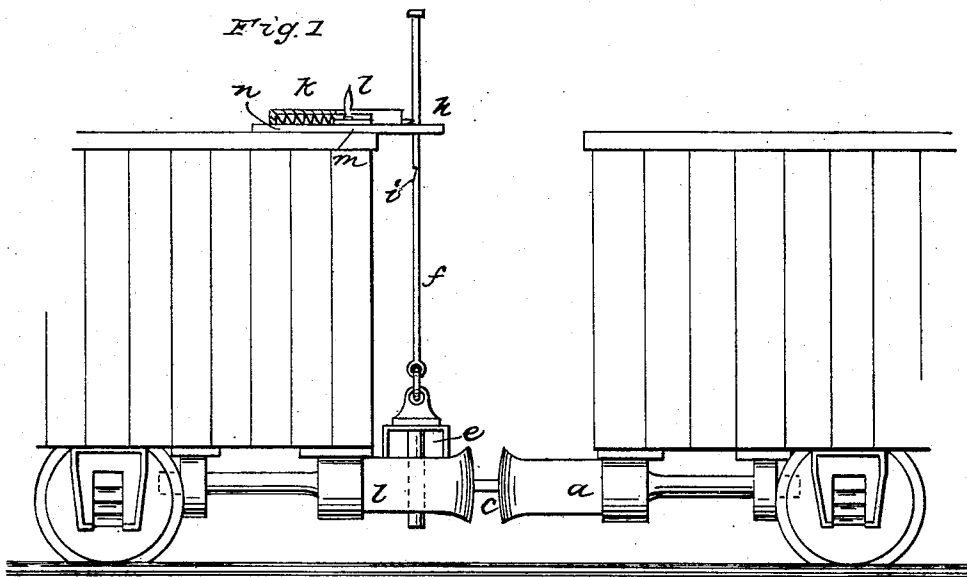


J. C. MORRIS
Car Coupling.

No. 110,269.

Patented Dec. 20, 1870



witnesses
C. A. Pettit
L. Curand

Inventor
J. C. Morris
by Munn & Co
his attorneys

United States Patent Office.

JAMES C. MORRIS, OF GREENEVILLE, TENNESSEE.

Letters Patent No. 110,269, dated December 20, 1870.

IMPROVEMENT IN CAR-COUPPLINGS.

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, JAMES C. MORRIS, of Greeneville, in the county of Greene and State of Tennessee, have invented a new and improved Self-acting Car-Coupling; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 is a side elevation;

Figure 2 is a sectional elevation; and

Figure 3 is a plan view.

This invention consists of spring-hooks, pivoted at their extremities in a draw-head, in combination with a bolt, triangular in cross-section, passing vertically through a complementary draw-head, which retains the hooks after they have entered the draw-head, in which is the triangular bolt, and have passed one to each side of the same, and closed together again at its rear, and with a rod attached, said bolt having a V-shaped groove running lengthwise of its rear side, which receives the points of the hooks, holds them, and prevents them from lapping.

In the drawing—

a b are draw-heads.

c c are the hooks, pivoted at their rear ends in the draw-head *a*.

d d are springs, which tend to keep the hooks *c* in contact.

e is the triangular bolt, sliding vertically in the draw-head *b*.

f is the rod, connected, said bolt being furrowed in V-shape lengthwise of its rear side, which receives the points of the hooks *c* after they have entered the draw-head, and, passed behind the bolt, retains them until the bolt is drawn up, and prevents them from lapping past each other.

The draw-heads should be cast deep enough to admit of coupling any car with one whose draw-head is at a greater or lesser height from the track.

The bolt *e* may be placed horizontally, and the hooks have a vertical motion.

The harder the pull of the hooks upon the bolt the closer will be their connection.

In case of running off the track, any car provided with this apparatus may be detached in a moment.

The hole *o* in the draw-head *a* is intended to receive a pin, by which an ordinary link may be held, the same to be used in case of accident to the hooks.

Having thus described my invention,

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

The hooks *c*, springs *d*, and triangular bolt *e*, furrowed in V-shape in its rear side, all constructed and arranged as specified.

J. C. MORRIS.

Witnesses:

JAMES O'BRIEN,

JOHN T. BEEKS.