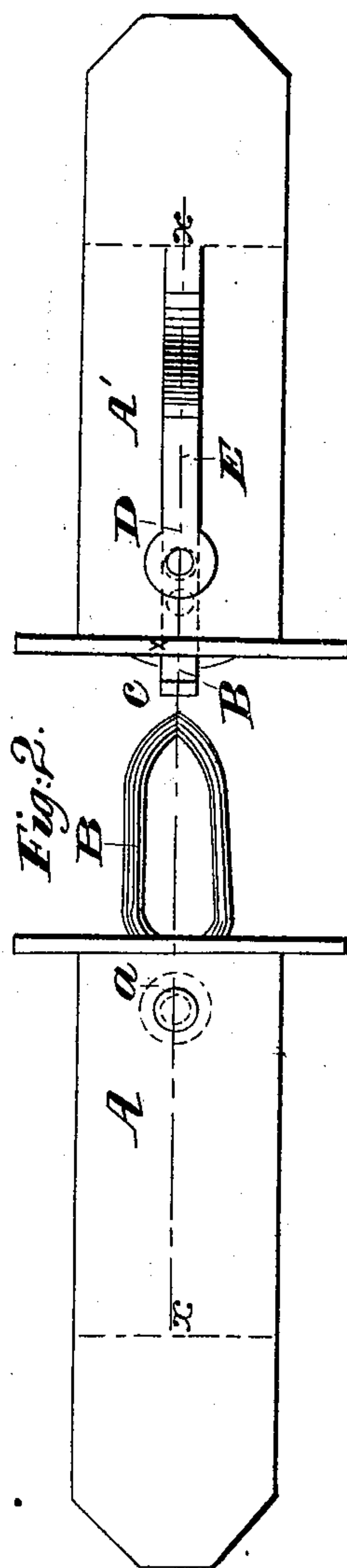
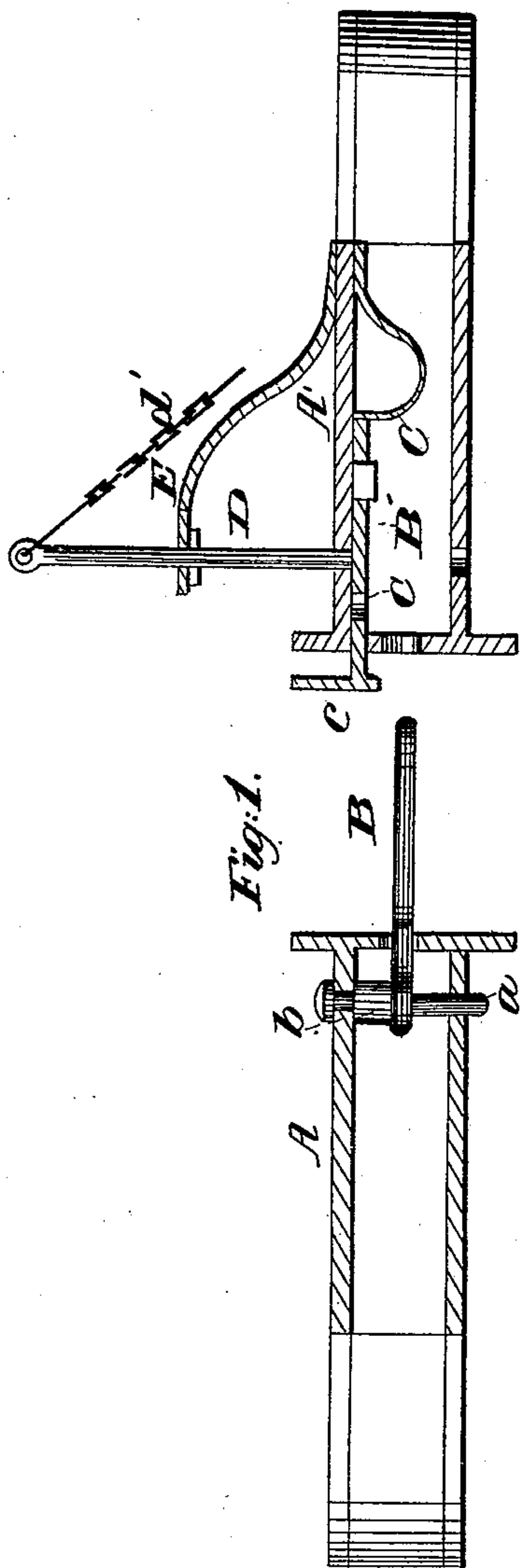


V. & E. COLE.

Car Coupling.

No. 60,479.

Patented Dec. 18, 1866.



Witnesses;
J. B. Livingston
J. M. Brown

Inventor;
V. and E. Cole
per *[Signature]*
Attorneys

United States Patent Office.

IMPROVED CAR COUPLING.

V. AND E. COLE, OF DETROIT, MICHIGAN.

Letters Patent No. 60,479, dated December 18, 1866.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that we, V. COLE and E. COLE, of Detroit, in the county of Wayne, and State of Michigan, have invented a new and improved Car Coupling; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings forming part of this specification, in which—

Figure 1 is a side sectional view of our invention, taken on the line *x x*, fig. 2.

Figure 2 a plan or top view of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a new and improved self-acting car coupling, and it consists in a link, a supporting slide, and a drop-pin, all arranged to operate in the manner substantially as herein set forth.

A A' represent the draw-heads of two adjoining cars. These draw-heads may be attached to the cars in the ordinary or any proper manner. One draw-head, A, has a link, B, fitted in it and secured by a pin, *a*, which passes vertically through it, one end of the link being formed with an eye for the pin, *a*, to pass through. On this pin there is placed a piece of rubber, *b*, which holds the link in a horizontal position, the link passing through a slot in the front plate of the draw-head, as will be fully understood by referring to fig. 1. The other draw-head, A', is provided with a slide, B^x, which is fitted against the under side of the stop-plate of the draw-head, and has a spring, C, bearing against its rear end, said spring having a tendency to keep the slide, B, thrust outward to its fullest extent. The front end of the slide, B^x, has an upright plate, *c*, which extends upward in front of the draw-head, and said slide has a hole, *c'*, made in it for a drop-pin, D, to pass through when said hole is in line with a similar hole in the top-plate of the draw-head, A'. The drop-pin, D, passes through a hole in a bar, E, attached to the top of the draw-head, and this bar may be slightly elastic. The pin, D, when down, passes through a hole in the bottom of the draw-head, A'. When the pin, D, is raised, the slide, B^x, holds it up in consequence of the spring, C, keeping the slide thrust forward, and the hole, *c'*, in said slide out of line with the hole in the top-plate of the draw-head, A', as will be fully understood by referring to fig. 1. From the above description it will be seen that as the two draw-heads approach each other, the link, B, will enter the draw-head, A', and the slide, B^x, will be forced back in consequence of the plate, *c*, coming in contact with the outer end of the draw-head, A, and the pin, D, will drop through the link when the hole in slide B^x comes in line with the hole in the top-plate of the draw-bar. The outer end of the link is pointed, as shown in fig. 2, so that it may enter the draw-head, A', if not directly in line with the same. The two draw-heads may be disconnected at any time by simply raising the pin, D, the latter being connected to the draw-head, A', by a chain, *d*.

Having thus described our invention, we claim as new, and desire to secure by Letters Patent—

The pin *a*, with its rubber spring *b*, and pointed link B, arranged to operate with the headed slide B^x, spring C, and bar E, in the manner and for the purpose herein specified.

VOORHEIS COLE,
EDWARD COLE.

Witnesses:

N. H. REDMOND,
JOHN FULLER.