

W. ROBINSON.  
CAR-COUPLING.

No. 171,172.

Patented Dec. 14, 1875.

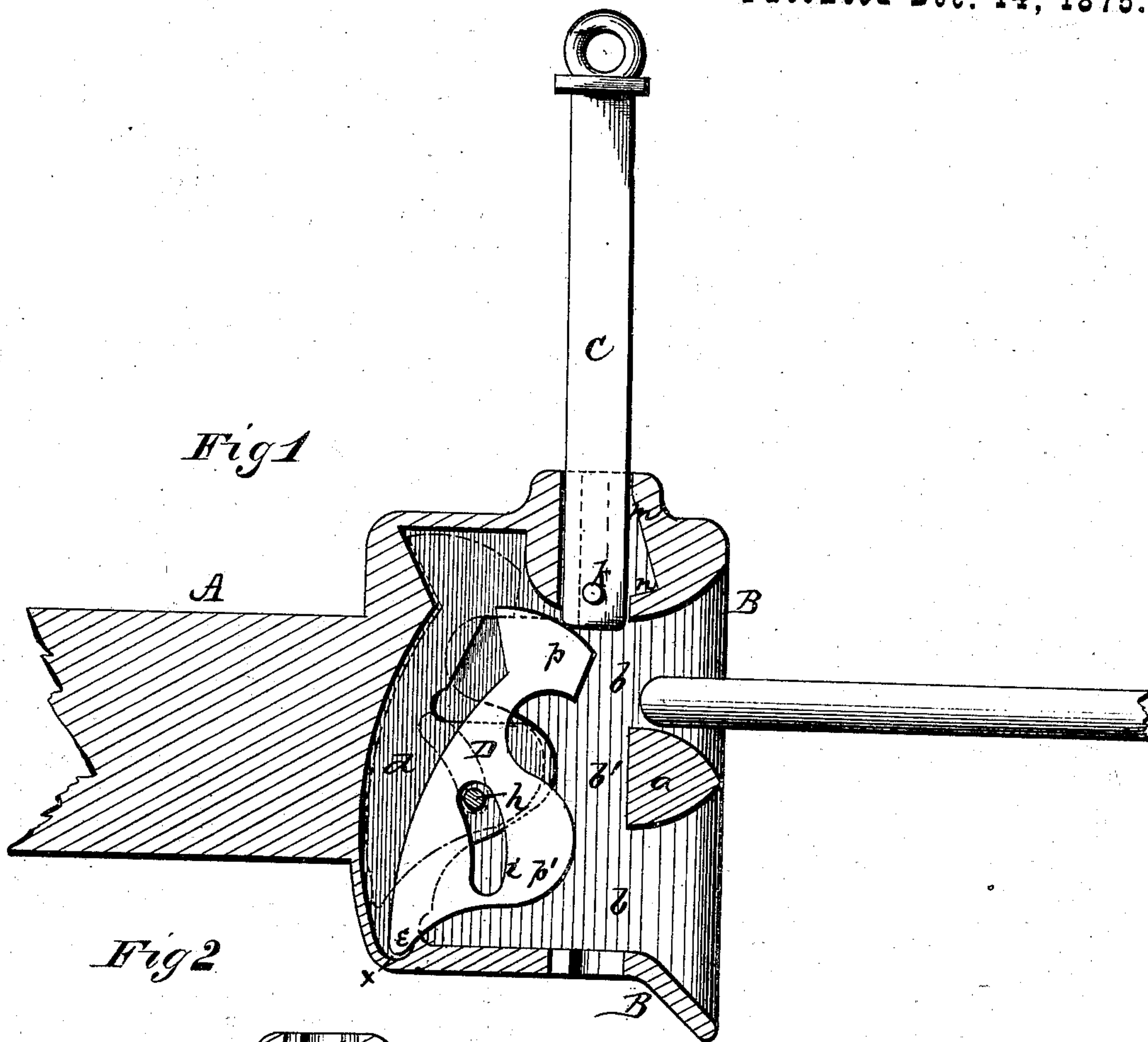
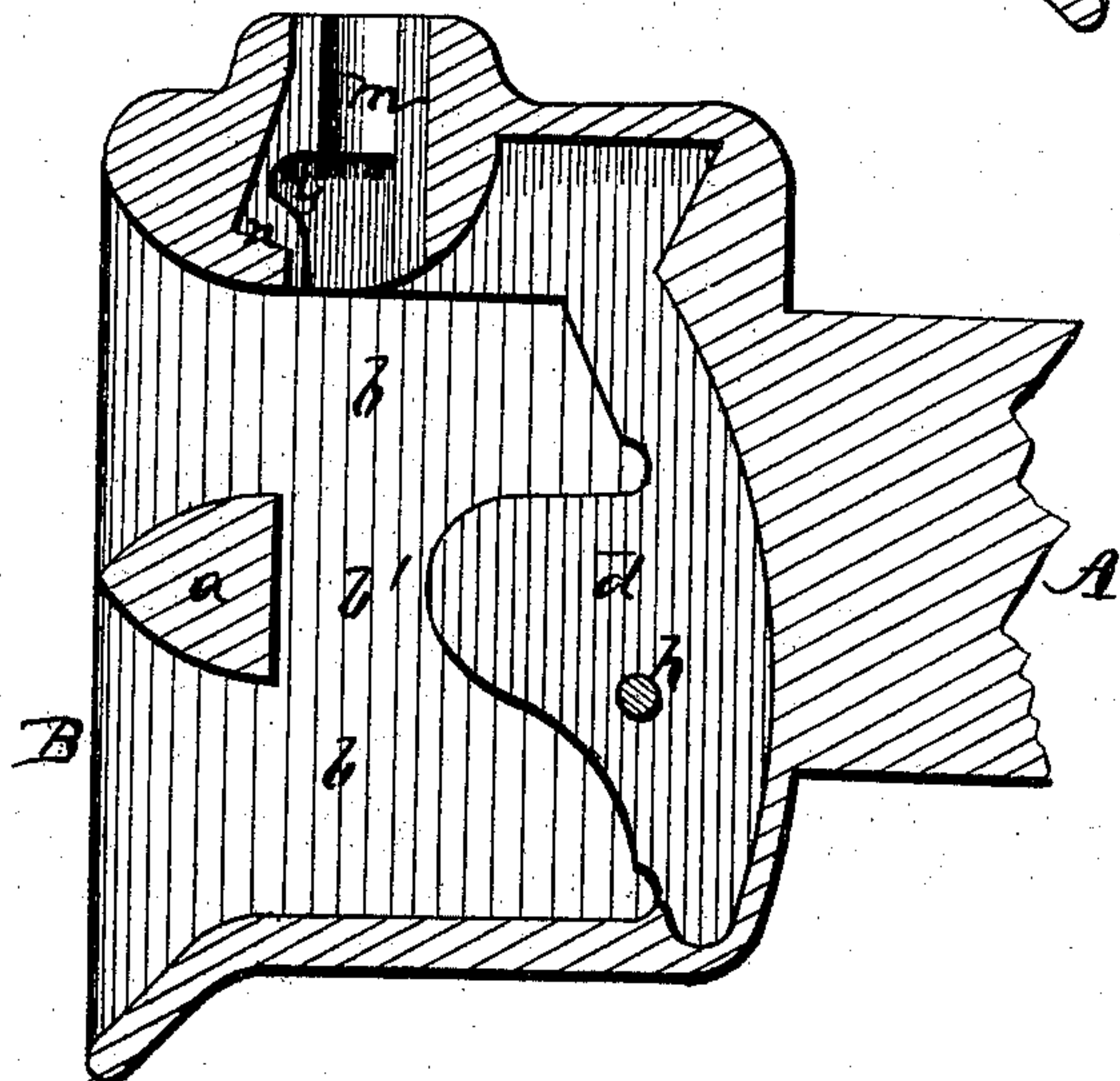


Fig 2



WITNESSES  
Frank L. Oward  
C. L. Ewert, By

INVENTOR  
Wm Robinson  
Alexander Mator  
Attorney

# UNITED STATES PATENT OFFICE

WILLIAM ROBINSON, OF BELLEFONTAINE, OHIO.

## IMPROVEMENT IN CAR-COUPPLINGS.

Specification forming part of Letters Patent No. 171,172, dated December 14, 1875; application filed October 4, 1875.

*To all whom it may concern:*

Be it known that I, WM. ROBINSON, of Bellefontaine, in the county of Logan 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 to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a car-coupling, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a longitudinal section of the draw-head, with the pin, link, and tongue in position. Fig. 2 shows the other part of the draw-head.

A represents the draw-bar, with head B at the front end, said head being made high, with flaring mouth, and a central horizontal partition, *a*, at the mouth or entrance, so as to couple either high or low, as required. Above and below this partition is a chamber, *b*, for the coupling-link, the two chambers being connected by a passage, *b'*, through which the coupling-pin is to go. In the back part of the draw-head B is formed a recess or chamber, *d*, in which the tongue D is placed. This tongue is of the peculiar formation as shown in Fig. 1, having at its lower end a teat or projection, *e*, fitting in a curved notch, *x*, in the bottom of the chamber *d*. In the tongue D is a curved slot, *i*, through which passes a pin, *h*. The tongue D does not rest on this pin, but the pin simply holds the tongue in its proper place. The front edge or side of the tongue D is cut out, as shown, to form, as it were, two projections, *p p'*, one of which rests upon the inner end of the coupling-link when

the same is in the draw-head, whether it be in the upper or lower portion thereof, thus holding the link in proper position to enter the opposite draw-head in coupling the cars. In the top of the draw-head is an aperture, *m*, for the passage of the coupling-pin C, which has a short pin, *k*, passed through it, and projecting a short distance beyond both sides of the coupling-pin. In the lower front part of the aperture *m* is a shoulder, *n*, on which the coupling-pin C may rest when the cars are uncoupled, and it is not desired to couple them together. In the lower part of the aperture *m* is a short groove or recess, *y*, for the pin *k* to pass into when the coupling-pin is to be placed on the shoulder *n*.

When the coupling-pin C is raised, the tongue D falls forward in the position shown in Fig. 1, so that, for coupling, the coupling-pin C may be supported on the upper end of the tongue, which is convex, as shown, so that when the link E enters the draw-head, either above or below the partition *a*, and strikes the tongue, it will readily pass from under the coupling-pin, and allow the same to fall down for coupling the cars.

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

The tongue D, constructed as described, with front projections *p p'*, curved slot *i*, and teat *e*, in combination with the two-mouthed draw-head B, provided with the chambers, as described, and with the recess *x*, and the tongue loosely connected therein by the pin *h*, all as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 13th day of September, 1875.

WM. ROBINSON.

Witnesses:

S. R. THOMPSON,  
ARTHUR ROOF.