

T. BEDDOW & A. T. JACKSON.

Car-Couplings.

No. 141,103.

Patented July 22, 1873.

Fig. 1.

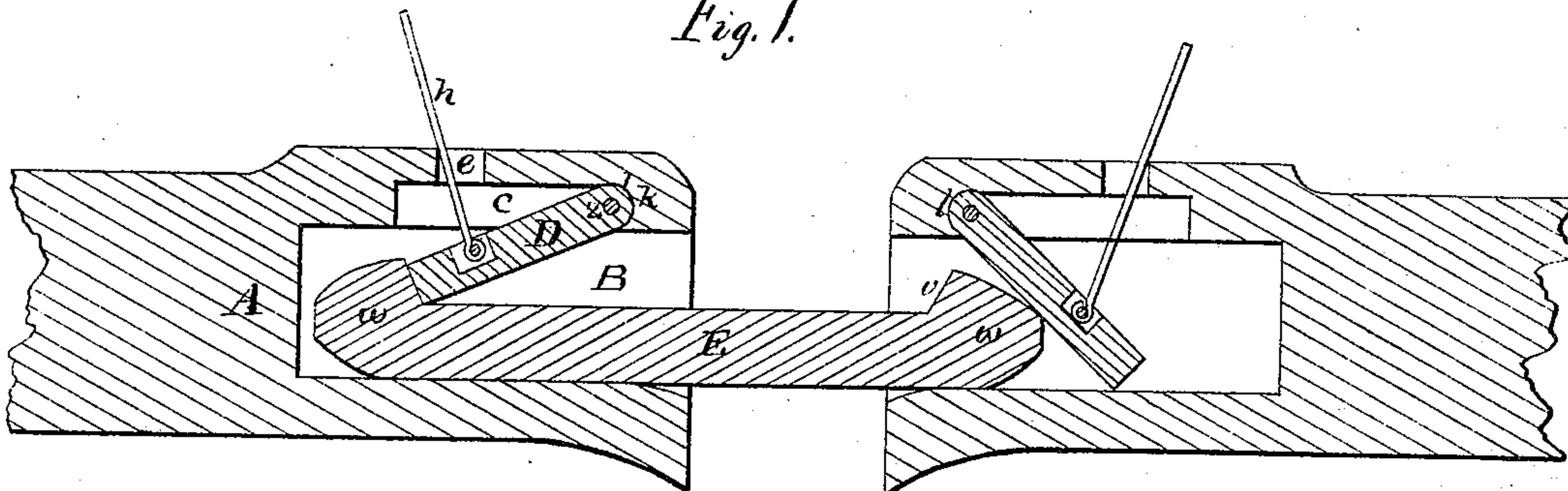


Fig. 2.

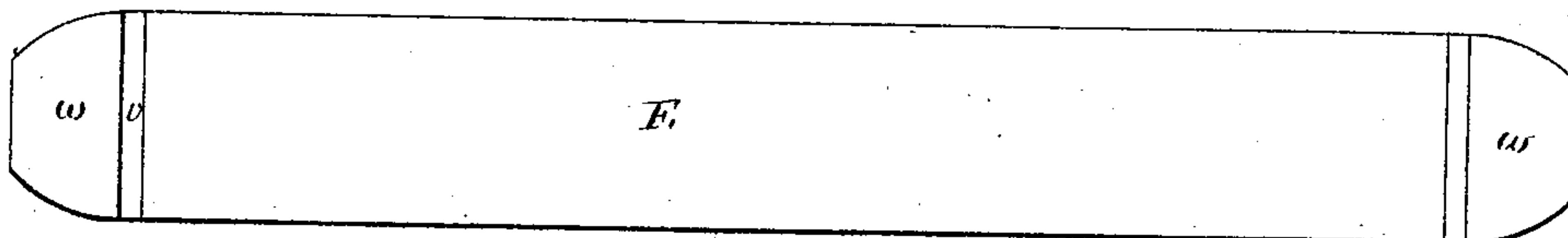
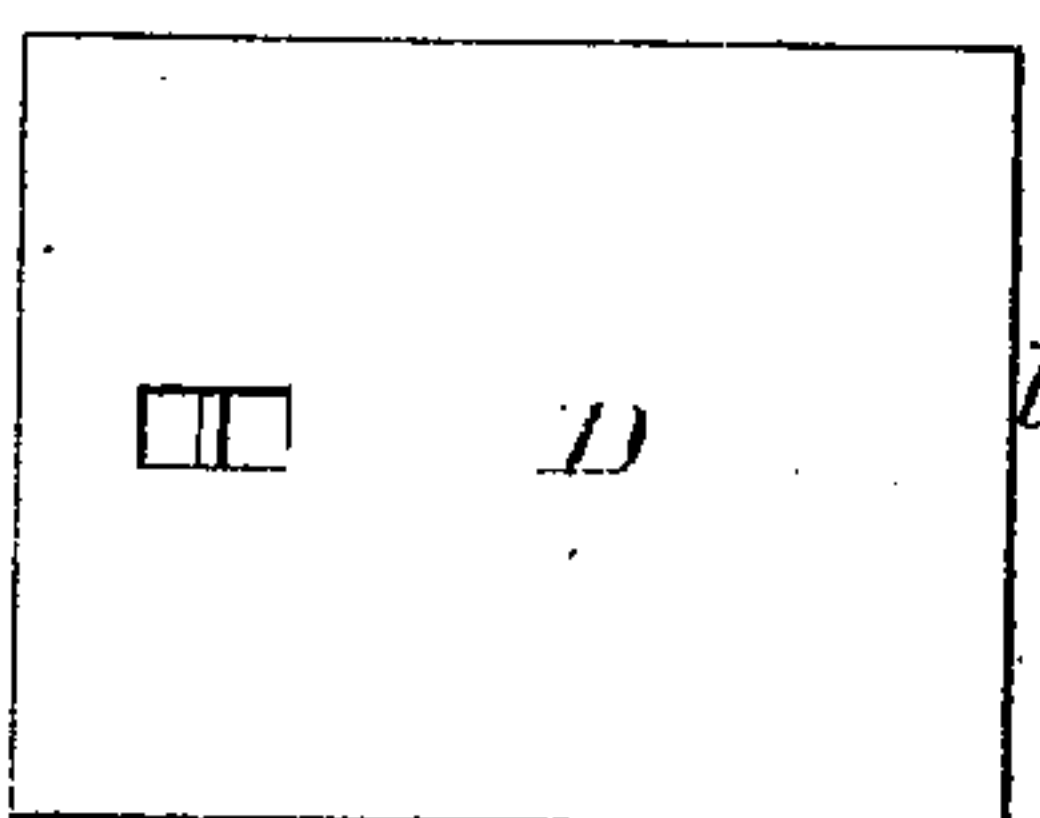


Fig. 3.



Witnesses.

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UNITED STATES PATENT OFFICE.

THOMAS BEDDOW AND ALEXANDER T. JACKSON, OF NEW ALBANY, IND.

IMPROVEMENT IN CAR-COUPPLINGS.

Specification forming part of Letters Patent No. **141,103**, dated July 22, 1873; application filed April 26, 1873.

To all whom it may concern:

Be it known that we, THOMAS BEDDOW and ALEXDR. T. JACKSON, both of New Albany, in the county of Floyd and State of Indiana, have invented a new and valuable Improvement in Car-Couplings; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a vertical section of our car-coupling. Fig. 2 is a view of the link forming a part of our car-coupling. Fig. 3 is a detail view.

This invention has relation to that class of automatic car-couplings in which the coupling is effected by the engagement of a pivoted tumbler with a projection on the end of the coupling-link; and it consists in the construction of the recess in the upper portion of the draw-head, the front wall of which is rounded out in concave form to fit the pivot-edge of the tumbler neatly, thereby taking the strain entirely off the pivot-bolt or journals. It also consists in the formation of the oblique shoulder on the coupling-bar. The object of this invention is to secure simplicity and strength in an automatic car-coupling, and thus, through their durability and economy of manufacture, to facilitate their general use.

In the accompanying drawings, the letter A indicates the draw-head, made of cast-iron, with the cavity B. In the top of the draw-head is a recess, *c*, communicating with the main chamber B, and of sufficient size to contain the tumbler D. A perforation, *e*, is made through the top of the draw-head for the passage of the operating chain or cord *h*, or rod, the end of which is secured to the tumbler. The forward end of the recess *c* is rounded out in concave form, as indicated at *k*, concentric with the pivot-pin *z* of the tumbler. The tumbler consists of a short bar or block of wrought iron, having its pivot-edge *l* rounded in convex form to fit the recess *k* neatly.

The free end of this bar or tumbler is square, or it may be slightly rounded, the circle of convexity having its center at the axis of the pivot-pin *z*. When the tumbler rests on the floor of the draw-head its position is somewhat oblique. When it is drawn up by the operating chain into the recess *c* its position is horizontal, and the upper wall of the draw-head is flush with its lower surface. E designates the coupling link or bar. This consists of a rectangular piece of wrought metal, having an enlargement or projection, *w*, at each end. The shoulder *v* of this projection is oblique to the upper surface of the bar, the plane of its obliquity being tangent to the circle of the sweep of the tumbler D. The sides of the bar E are rounded toward each other at each end, and in a similar manner the upper and lower surfaces approach each other. The corners of the bar are thus continued to each end thereof, so that it will keep its proper position with the shouldered face up.

As the tumbler fits squarely against the oblique shoulder *v*, there is no danger of its being forced from its bearing by the draft. At its other end the rounded edge of the tumbler is in close contact with the rounded recess *k* of the draw-head, which thus receives all the strain of the draft, the pin *z* being entirely relieved.

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

The combination of the draw-head A, constructed with the recess C, as described, and having the tumbler D, with its oblique rear end pivoted therein, with the link E having its coupling shoulders beveled outward, substantially as shown and described.

In testimony that we claim the above we have hereunto subscribed our names in the presence of two witnesses.

THOMAS BEDDOW.

ALEXANDER T. JACKSON.

Witnesses:

THOMAS G. JACKSON,

JAMES W. HARTLOVE.