

(No Model.)

E. N. COLWELL.
CAR COUPLING.

No. 397,277.

Patented Feb. 5, 1889.

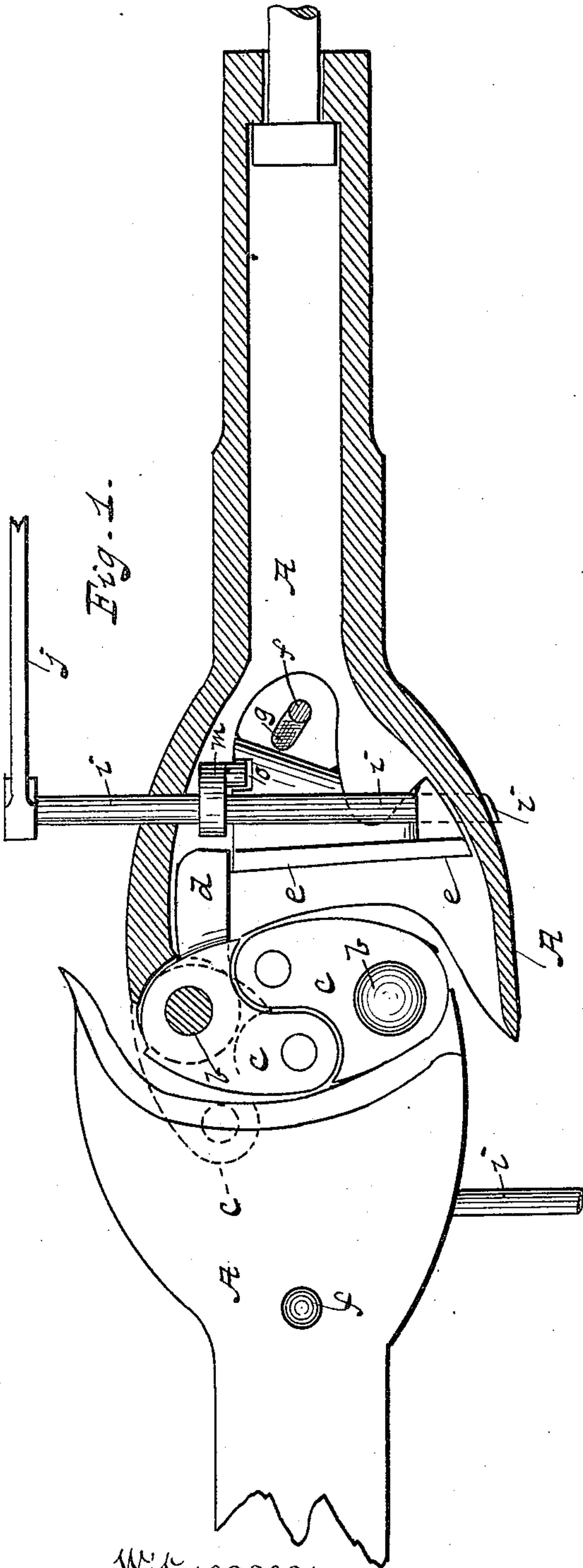


Fig. 1.

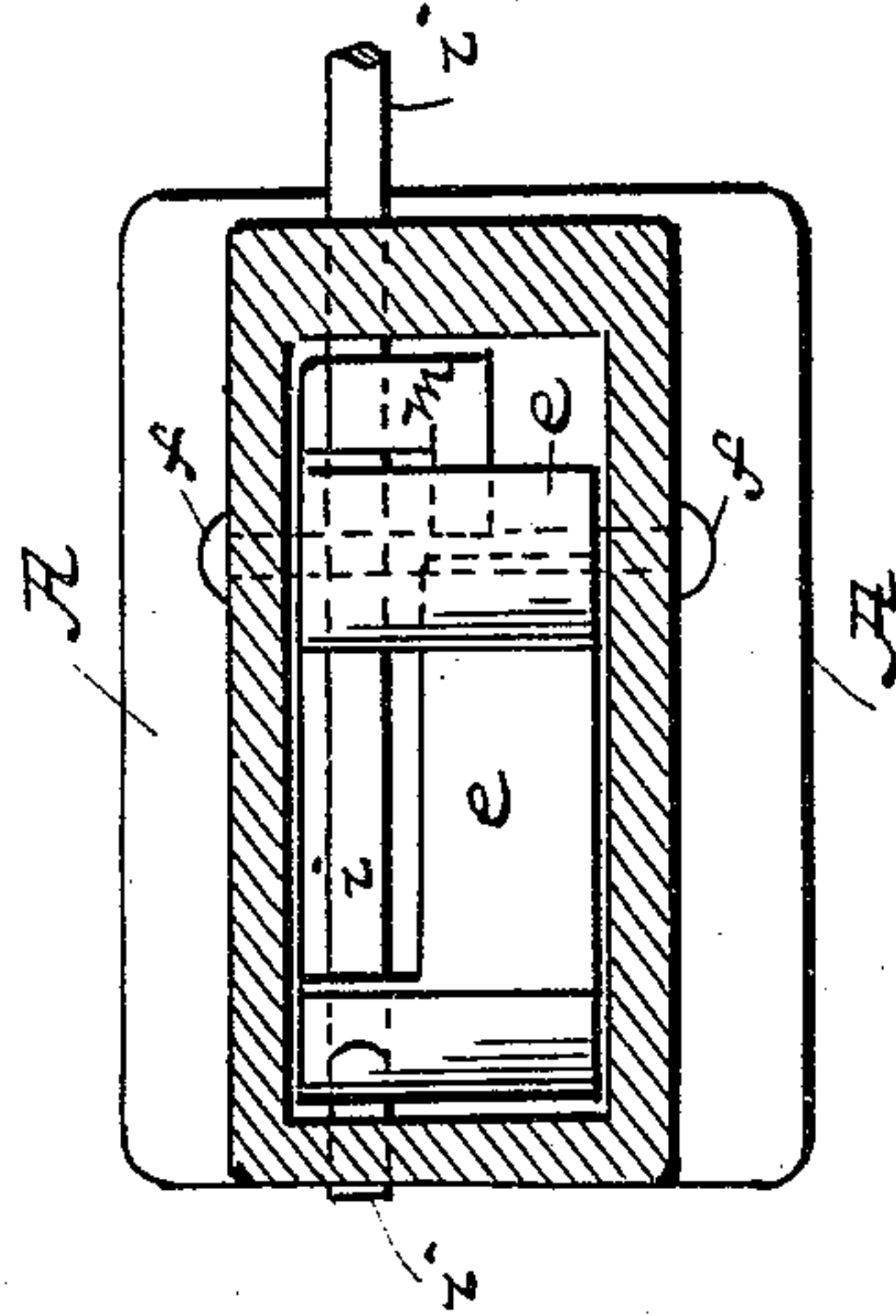
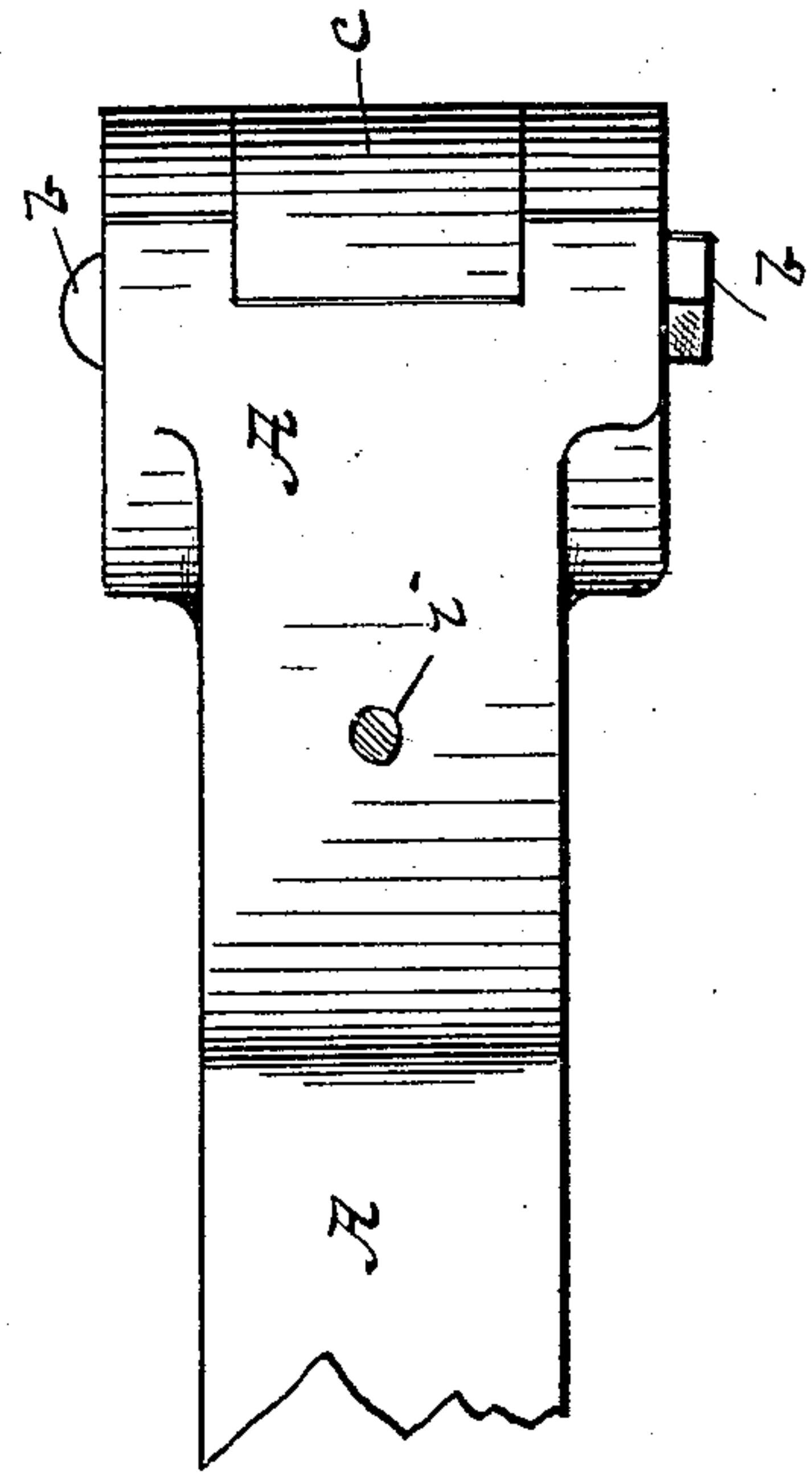


Fig. 3.

Fig. 2.



WITNESSES:
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UNITED STATES PATENT OFFICE.

EVANDER N. COLWELL, OF ALLEGHENY, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO CHRISTIAN F. KENNEWEG, OF SAME PLACE.

CAR-COUPLING.

SPECIFICATION forming part of Letters Patent No. 397,277, dated February 5, 1889.

Application filed September 14, 1888. Serial No. 285,409. (No model.)

To all whom it may concern:

Be it known that I, EVANDER N. COLWELL, a citizen of the United States, residing at Allegheny, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Car-Couplers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to an improved railway car-coupler; and it consists in a draw-head having hinged therein a hook capable of revolving a limited distance outward, and a device for locking the said hook and releasing the same, together with certain other details of construction and combination of parts, as will be fully described hereinafter.

In the accompanying drawings, Figure 1 is a plan view of two of my improved couplings constructed in accordance with my invention, one of which is shown in section the better to show its interior working parts. Fig. 2 is a side elevation of the same. Fig. 3 is a transverse sectional elevation on the line X X.

To put my invention into practice, I provide a draw-head, A, of suitable size and form of construction, having an enlarged head, in which is hinged, by a vertical bolt, *b*, a hook, *c*, capable of a forward limited movement about its pivotal point *b*, as shown by dotted lines at Fig. 1 on the drawings. Integral with the hook *c* is an inwardly-projecting piece, *d*, which, together with a latch-piece, *e*, loosely secured in the draw-head A, forms a locking device for rigidly securing the hook *c* in the proper position to form a coupling with another car. This latch-piece *e* is held in place by a vertical bolt, *f*, passing through the draw-head A, and a slot, *g*, formed in one extremity of the piece *e*, which slot *g* allows the latch-piece *e* to move toward and from the inward-

projecting portion *d* of the hook *c* by means of a transverse shaft, *i*, having a small crank, *m*, operating in a groove, *o*, formed in one end of the latch *e*. This shaft *i* is extended to one or both sides of the car, and provided with a lever, *j*, for the purpose of operating the latch-piece *e*.

In operation the cars are coupled, as shown at Fig. 1 on the drawings, the hooks *c* interlocking the one with the other, and are rigidly secured in that position by the latch-piece *e* bearing against the inward projection, *d*, formed on the same. If it is desired to uncouple or release the coupler, one of the levers *j* is elevated, which revolves the small crank *m* and moves the latch-piece *e* inwardly, which releases the inward-projecting portion *d* of the hooks *c*, and allows the latter to be revolved about its pivotal point *b* and assume a position such as shown by dotted lines at Fig. 1 of the drawings, which position allows the other hook *c* to be withdrawn, thus uncoupling the cars.

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

The herein-described car-coupler, consisting of the draw-head A, having an enlarged open head, in which is hinged, by means of a bolt, *b*, a hook, *c*, the inward extension, *d*, of the said hook *c* adapted to engage with and be locked by a latch-piece, *e*, the shaft *i*, for operating the latch *e*, the crank *m*, attached to said shaft *i*, and the bolt or pin *f*, passed through a slot, *g*, in the latch-piece *e*, for confining the same in a proper position, substantially as set forth and described.

In testimony that I claim the foregoing I hereunto affix my signature this 15th day of August, A. D. 1888.

EVANDER N. COLWELL. [L. S.]

In presence of—

FRANK W. SMITH,
I. A. CARLINE.