D. A. NEWSOM.

Car-Coupling.

No. 168,915. Patented Oct. 19, 1875.

Fig 1.

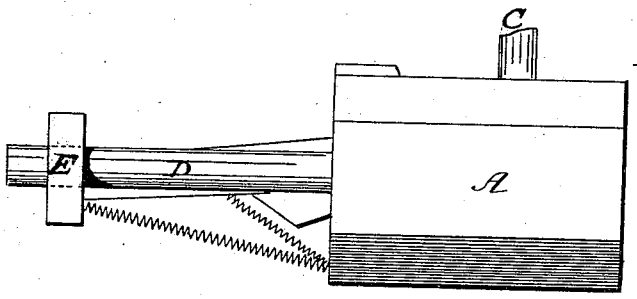


Fig 2.

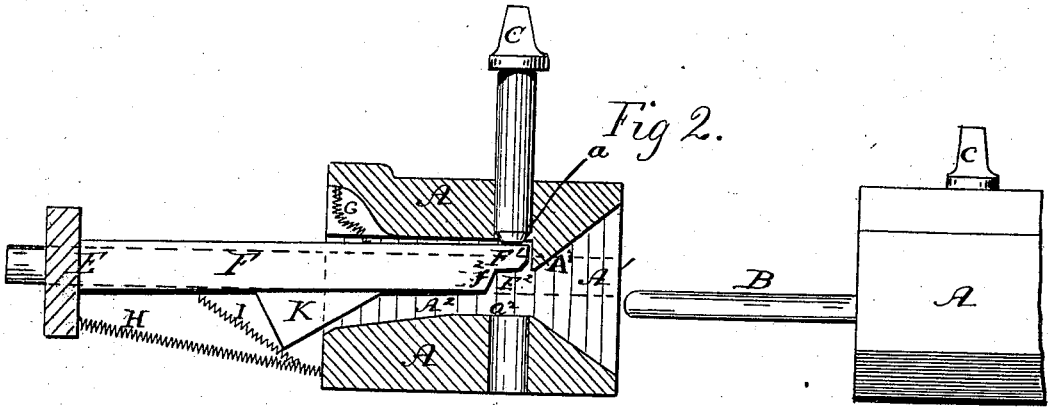


Fig 3.

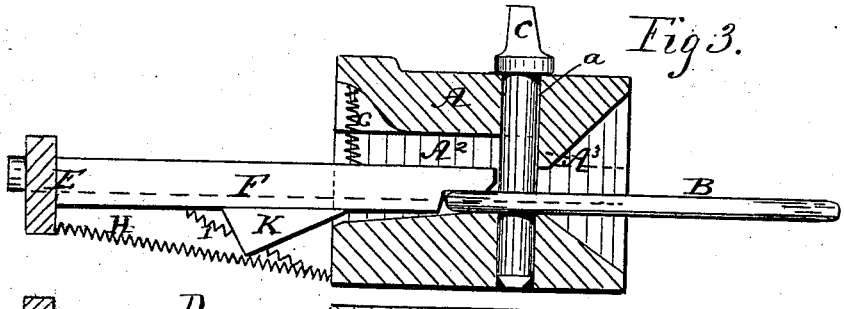
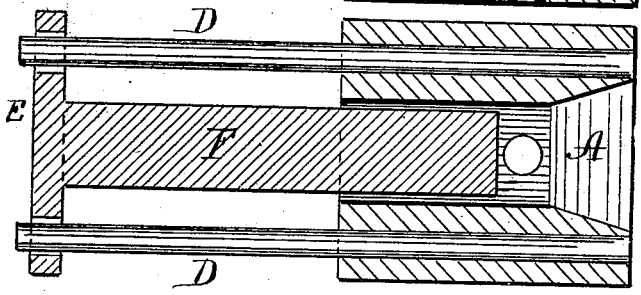


Fig 4.



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IMPROVEMENT IN CAR-COUPLINGS.

Specification forming part of Letters Patent No. **168,915**, dated October 19, 1875; application filed July 27, 1875.

To all whom it may concern:

Be it known that I, DANIEL A. NEWSOM, of Hatcher's Station, in the county of Quitman and State of Georgia, have invented certain new and useful Improvements in Car-Couplings; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawing, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in car-couplings, the nature of which will be fully explained by reference to the drawings.

In the drawings, Figure 1 represents a side view of a car-coupling constructed according to my invention. Fig. 2 is a side view of a pair of couplers, showing one in section, with parts in position to receive the link held by the other. Fig. 3 represents a sectional view of a coupler with its link and pin in position, and Fig. 4 is a horizontal longitudinal section, showing the guides, retaining-piece, and cross-piece.

In each of the views similar letters of reference are employed to indicate corresponding parts wherever they occur.

A represents the bumper-head, which is formed with the usual bell-mouthed opening A^1 for guiding the link B of an adjoining car into position, so that the coupling-pin C may drop through the opening in the same and connect the cars together. At its rear end the bumper-head A is provided with a pair of parallel guides, D, upon which is supported with capability of sliding freely a cross-piece, E, to the center of which is attached a flat holding or retaining piece, F, extending forward from the cross-piece E sufficiently within the slot or opening A^2 in the bumper A that when the coupling-pin C is raised, as shown by Fig. 2, its projecting portion F^1 shall be pressed forward and upward so as to come under the opening *a* for the same, and prevent the coupling-pin C from falling until a coupling-link, B, is pressed in sufficiently to receive the pin C within its loop. The slot or opening A^2 is so formed that the projecting portion F^1 of the holding and retaining piece F shall rest behind the projection A^3 formed by the upper inclined side of the bell-mouthed opening A^1, while the lower front portion of the piece F is recessed at F^2, leaving a front face, f^2, in position to be operated by the link B to force the same back, when the piece F is forced back by the link B, so that the pin C may fall into its loop, as shown by Fig. 3. It is also caused to descend by means of the spring G, so as to clamp the end of the link B firmly between the horizontal portion a^2 of the opening A^2 and the projecting portion F^1, thereby holding the link B firmly in a horizontal position, ready to be received by the coupler of another car, but immediately the pin C is withdrawn. The holding and retaining piece F is, by means of the springs H I and the inclined projection K, (formed on the under side thereof,) forced forward, and its end raised into the position shown by Fig. 2, so as to hold the coupling-pin C and the parts in position ready to receive another coupling-pin.

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

In a car-coupling, the combination, with the bumper A, having the projection A^3 and guides D, of the springs G H I, and the retaining-piece F, having the projection F^1, cross-piece E, and inclined projection K, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

DANIEL A. NEWSOM.

Witnesses:
J. T. LAWHON,
J. E. SMITH.