

Hamilton Ballentine's,
Improvement in Carriage Jacks.

PATENTED JUL 4 1871

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Fig. 1.

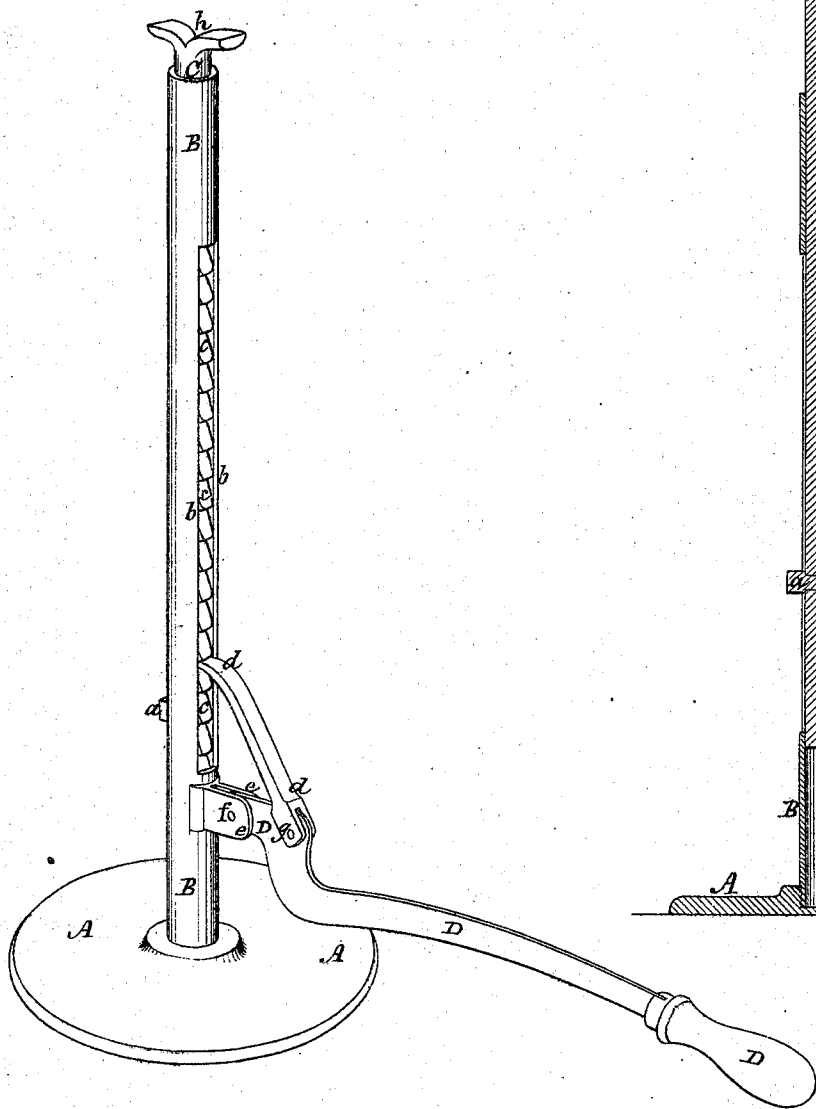
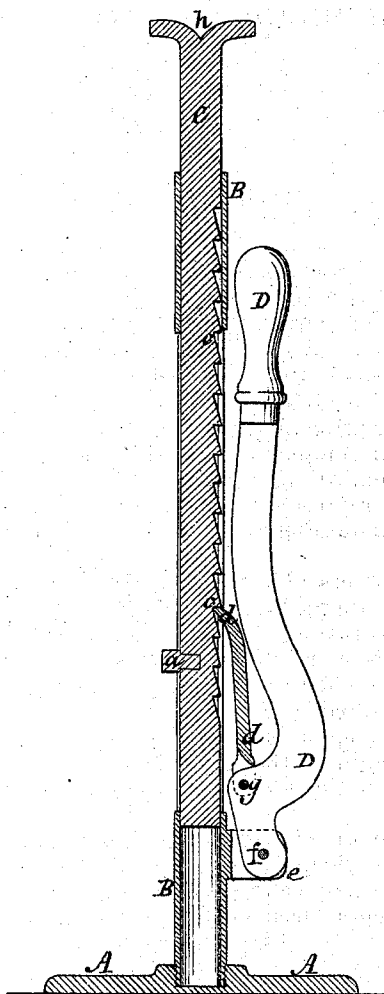


Fig. 2



Witnesses.
A. Moore } Hamilton Ballentine.
Edmund Masson } By atty. A. B. Stoughton.

UNITED STATES PATENT OFFICE.

HAMILTON BALLENTINE, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN LIFTING-JACKS.

Specification forming part of Letters Patent No. 116,534, dated July 4, 1871.

To all whom it may concern:

Be it known that I, HAMILTON BALLENTINE, of the city of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Carriage-Jacks; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 represents a perspective view of the jack. Fig. 2 represents a vertical section through the same.

Similar letters of reference, where they occur in the separate figures, denote like parts of the jack in the drawing.

My invention relates to the use of a tubular case and a notched rod guided and moving therein, and operated by a lever externally arranged thereon, having a lever-pawl pivoted to it, so that the weight on the jack will tend to hold the lever-pawl in the notches of the rod, as will be explained.

To enable others skilled in the art to make and use my invention, I will proceed to describe the same with reference to the drawing.

A represents a base or foot, to which the tubular supporting-piece B is attached. In this supporting-piece or case B there is placed the notched rod C, which snugly fits into the interior of said case; and that it may move up and down therein without turning around, a vertical slot is made in the case, in which a guide-pin or stud, *a*, in the rod C, may move, and thus guide said rod or bar. Opposite the slot in the case that the guide-

pin *a* moves in there is another vertical slot, *b*, opposite the ratchet-notches *c* in the lifting-rod or bar C, for the lever-pawl *d* to work through in taking into said notches *c*. To lugs *e* on the case B is pivoted, as at *f*, the hand-lever D; and to this hand-lever is pivoted, as at *g*, the lever-pawl *d*, and so that when the lever D is up, as shown in Fig. 2, the pivot *g* of the lever-pawl *d* shall be inside of the pivot *f* of the hand-lever D, and thus cause the weight on the jack to hold the lever-pawl in its notch. The bar or rod C may be split or branched at its top, as at *h*, so as to form a seat for a carriage-axle to rest on.

By making the case of tubular form common gas-pipe may be used for the purpose, which is quite cheap, and far better than any cast-iron case, which is apt to be broken even by ordinary handling. The round rods or bars are easily and cheaply made of round rolled iron, and the case and notched bar, so made, are very compact and quite strong. The case and bar may, however, be of other than a round form, if so preferred.

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

The combination of the tubular slotted case B, the notched and guided rod or bar C, and the hand and pawl-levers D *d*, arranged to operate therewith, substantially in the manner and for the purpose described.

HAMILTON BALLENTINE.

Witnesses:

GEO. M. STROUD,
GEORGE D. STROUD.