(No Model.)

R. M. FRALEY.

LIFTING JACK.

No. 382,964. Patented May 15, 1888.

Fig. 1.

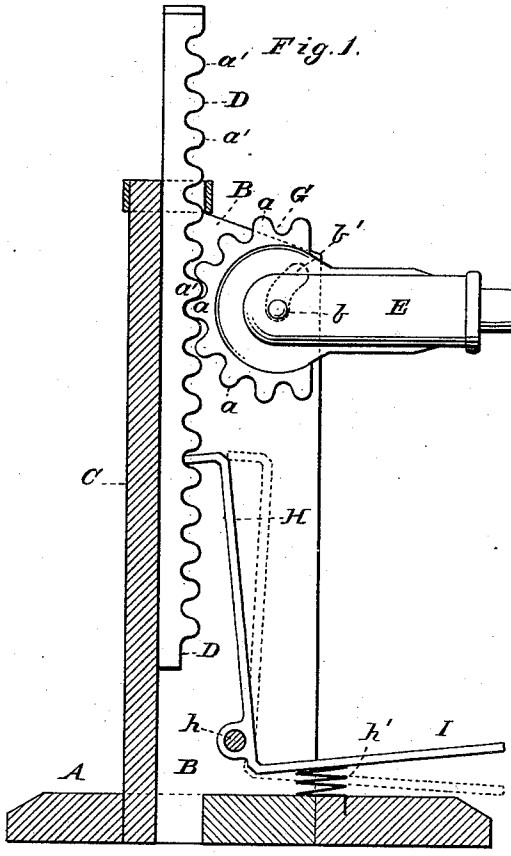
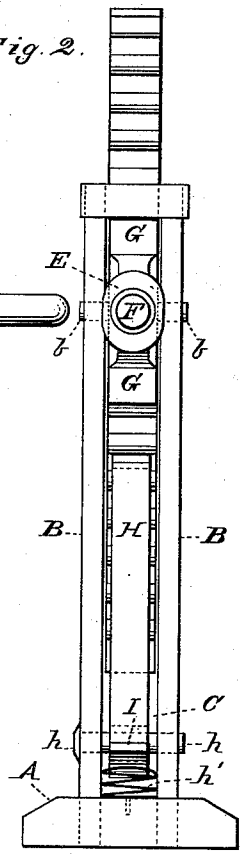


Fig. 2.



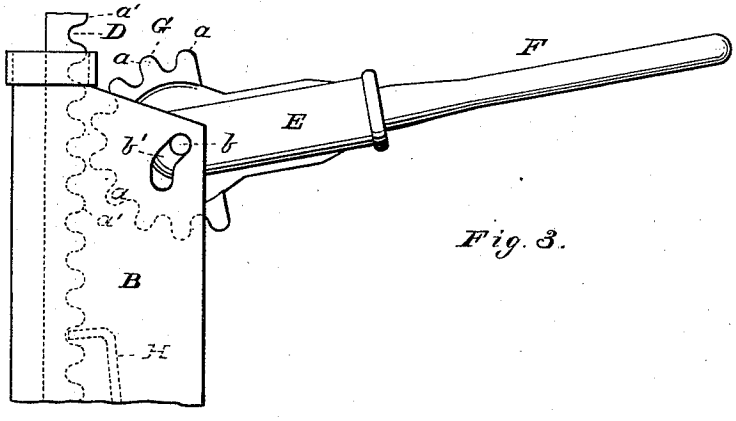


Fig. 3.

WITNESSES.

Villette Anderson.

C. R. Ferguson.

INVENTOR,

Robert M. Fraley.

by E. W. Anderson,

Attorney.

N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

ROBERT M. FRALEY, OF FOREST HILL, INDIANA.

LIFTING-JACK.

SPECIFICATION forming part of Letters Patent No. 382,964, dated May 15, 1888.

Application filed November 26, 1887. Serial No. 256,237. (No model.)

To all whom it may concern:

Be it known that I, ROBERT M. FRALEY, a citizen of the United States, and a resident of Forest Hill, in the county of Decatur and State of Indiana, have invented certain new and useful Improvements in Lifting-Jacks; and I do 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 appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of this invention, and is partly a vertical section and partly a side view. Fig. 2 is a front view. Fig. 3 is a detail and a side view.

The invention relates to improvements in lifting-jacks; and it consists in the construction and novel combination of parts, as hereinafter specified, illustrated in the drawings, and pointed out in the claim.

My object is to provide a lifting-jack of great power and simple construction that may be manufactured at a small cost.

In the drawings, A represents the bed-piece or floor of the jack, and B the side walls rising vertically therefrom. A back wall, C, is inserted between the walls B, and these three walls form the standard.

D is a rack-bar running between the walls B, its rear side abutting against the inner side of the wall C.

E shows the cast-metal socket for the lever F. The inner end of the socket portion E is somewhat enlarged in cross-section and provided with the segmental rack G, the teeth *a* of which engage the teeth *a'* of the rack-bar D during the lifting operation. The segmental rack G is provided with the journals *b*, bearing in the curved slots *b'* in the walls B. A clutch, H, is located between the walls B, and has pivotal bearings in said walls, as shown at *h*. The lower end of the clutch is extended outward at a right angle to form the foot-lever I, beneath which a coiled spring, *h'*, is placed to retain the clutch in engagement with the teeth of the rack-bar D.

In operation the clutch is relieved by means of the foot-lever and the rack-bar with its superimposed load is elevated by a downward pressure of the hand-lever, carrying the segmental rack to its extreme lower limit. The clutch is then released to engage the rack-bar until the position of the segmental rack is reversed, which is done by drawing the journals *b* to the upper extremity of the slot-bearing *b'* and elevating the outer end of the hand-lever.

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

In a lifting jack, the combination of the bed-piece A, the standard having the walls B C, the socket E, having the enlarged end provided with the segmental rack G, having journal-bearings in the curved slot *b'*, the lever F, the rack-bar D, the clutch pivoted between the walls B, and having the foot-lever I, and the coiled spring *h'* beneath the foot-lever, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

ROBERT M. FRALEY.

Witnesses:

BENJAMIN F. DENHAM,

JARED S. RYKER.