

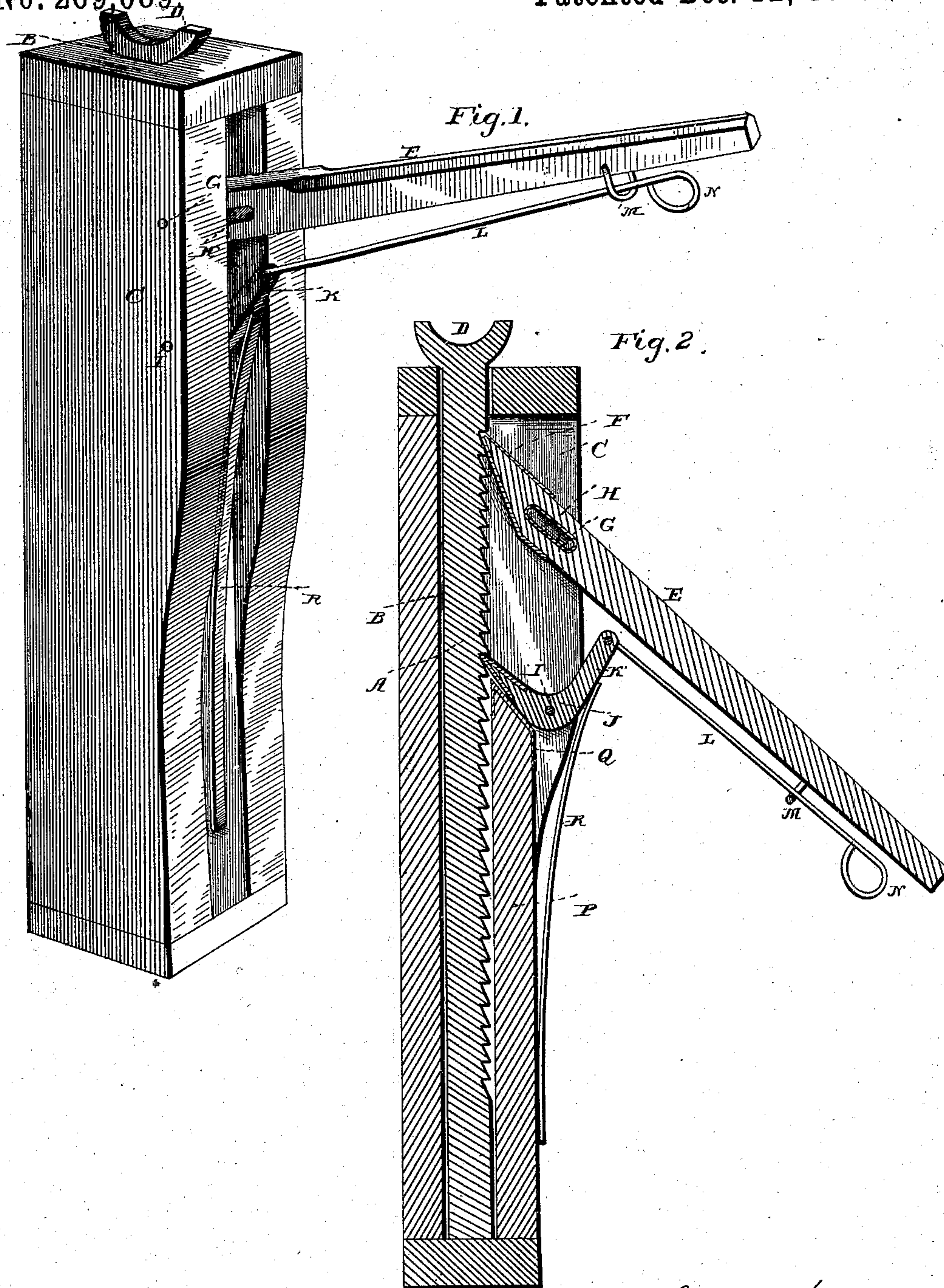
(No Model.)

J. C. MICHAEL.

LIFTING JACK.

No. 269,089.

Patented Dec. 12, 1882.



WITNESSES:

Fred. G. Dieterich
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UNITED STATES PATENT OFFICE.

JOHN C. MICHAEL, OF BLACK ROCK, WEST VIRGINIA.

LIFTING-JACK.

SPECIFICATION forming part of Letters Patent No. 269,089, dated December 12, 1882.

Application filed October 24, 1882. (No model.)

To all whom it may concern:

Be it known that I, JOHN C. MICHAEL, of Black Rock, in the county of Grant and State of West Virginia, have invented certain new and useful Improvements in Lifting-Jacks; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved lifting-jack, and Fig. 2 is a vertical sectional view of the same.

Similar letters of reference indicate corresponding parts in both the figures.

My invention has relation to lifting-jacks; and it consists in the improved construction and combination of parts of the same, as hereinafter more fully described and claimed.

In the accompanying drawings, the letter A represents the rack-bar, which slides in a recess, B, in the casing C.

The rack-bar is provided with a head, D, upon which the object to be lifted rests, and the beveled end of a lever, E, engages the ratchet-teeth on the rack-bar. The lever E and the casing C are preferably made of strong wood, and the beveled end of the lever is provided with a shoe of iron, F. The lever has its fulcrum on a bolt, G, fastened in the sides of the casing, and passing through an iron-lined slot, H, in the lever.

Pivoted on a bolt, I, passing through the sides of the casing, is a pawl, J, which engages the rack-bar below the lever. This pawl has an arm, K, to which is hinged a rod, L, which passes through a loop, M, depending from the lever, and is provided with a handle, N, by

which it is operated. The pawl proper rests, when engaging the rack-bar and supporting it while the outer end of the lever is raised and the beveled end of it engages a lower tooth on the rack-bar, with its under side against the beveled end of the rear part, P, of the casing. This beveled top is shod with iron, as shown at Q, and serves to relieve the strain on the bolt I, while it is beveled, so as to admit of the pawl being disengaged by drawing on the handle N of the rod L, which tilts the pawl and its arm back, releasing the rack-bar.

A spring, R, may be fastened on the back piece, P, of the frame, with its free end bearing against the arm K of the pawl, so as to force it against the rack-bar; or the pawl proper may be so balanced to the arm K that it will fall in place by its own weight.

By the foregoing description, taken in connection with the accompanying drawings, the working of my lifting-jack will be easily understood without further explanation.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

In a lifting-jack, the combination of the casing C, having beveled back piece, P, the rack-bar A, having head D, the slotted lever E, having loop M, and the pawl J, adapted to rest against the beveled end Q of the back piece, P, and having arm K, and rod L, all constructed and combined to operate substantially as set forth.

In testimony that I claim the foregoing as my own, I have hereunto affixed my signature in presence of two witnesses.

JOHN CLARENCE MICHAEL.

Witnesses:

WM. M. LYON,
M. M. SMITH.