

J. Y. THURSTON.

LIFTING-JACKS.

No. 176,900.

Patented May 2, 1876.

Fig: 1.

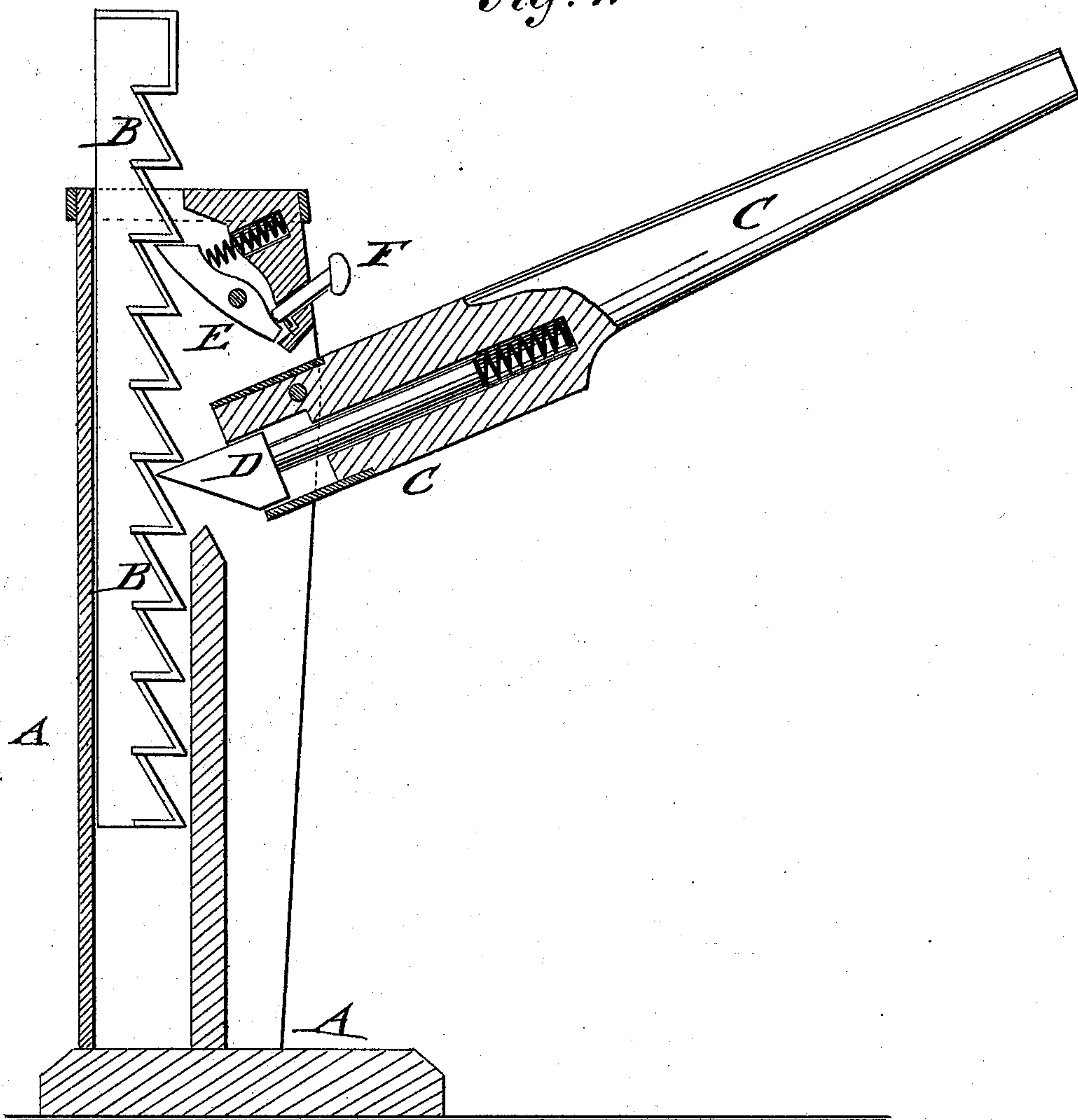
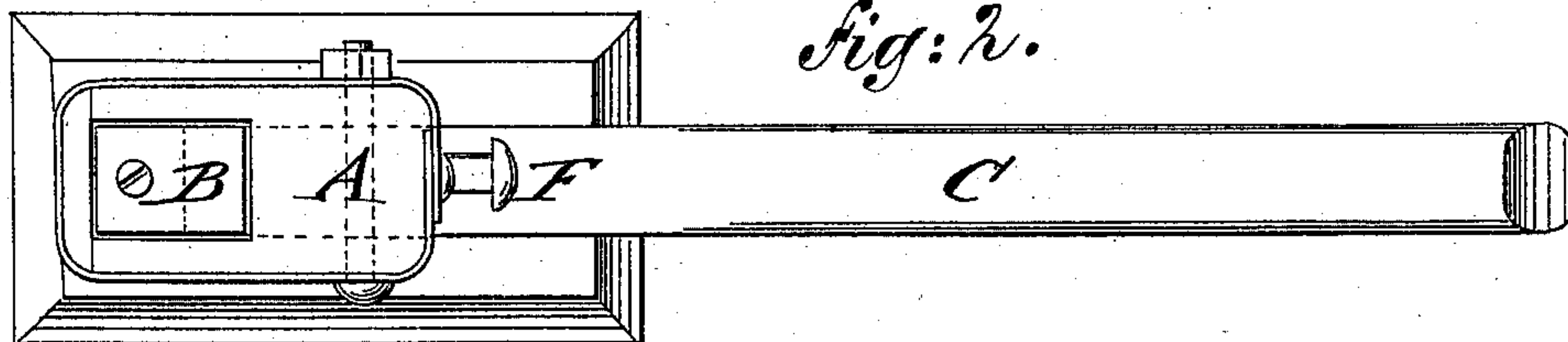


Fig: 2.



WITNESSES:

Chas. Nida
John Goethals

INVENTOR:

J. Y. Thurston

BY

Munn

ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOHN Y. THURSTON, OF MEDFIELD, MASSACHUSETTS.

IMPROVEMENT IN LIFTING-JACKS.

Specification forming part of Letters Patent No. **176,900**, dated May 2, 1876; application filed April 4, 1876.

To all whom it may concern:

Be it known that I, JOHN Y. THURSTON, of Medfield, Norfolk county, Massachusetts, have invented a new and Improved Lifting-Jack, of which the following is a specification:

Figure 1 represents a sectional side elevation of my improved lifting-jack, and Fig. 2 a top view of the same.

Similar letters of reference indicate corresponding parts.

My invention relates to an improved lifting-jack of simple and effective construction; and it consists of a sliding ratchet-bar operated by a spring-bolt lever, and retained by a safety-spring pawl.

In the drawing, A represents a suitable casing or frame of my jack, in which the lifting-post or ratchet-bar B slides in suitable guides. A lever-handle, C, is fulcrumed to casing A and provided with a spring-bolt, D, that engages, by its wedge-shaped end, the teeth of the ratchet-bar, so as to lift the same by hoisting the weight. A spring-pawl, E, is pivoted to the upper part of casing A at the rear end of the same, and intended to retain the ratchet-

bar during the time when the lever is carried up for engaging the next tooth. The spring-bolt D slides, by its wedge shape, back into the socket-recess of the handle when the lever is swung up, but engages the teeth of the ratchet when carried down. A small sliding bolt, F, acts on the rear end of the spring-pawl E, and releases the same from the ratchet-bar when it is desired to let the bar back into the casing.

The lever with lifting spring-bolt is very conveniently operated, and constitutes the main point of the invention.

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

A lifting-jack consisting of a sliding ratchet-bar, retaining spring-pawl, and operating-lever with spring-bolt, constructed and operated substantially as specified.

JOHN Y. THURSTON.

Witnesses:

D. HOIZINGTON,
F. H. MERRILL.