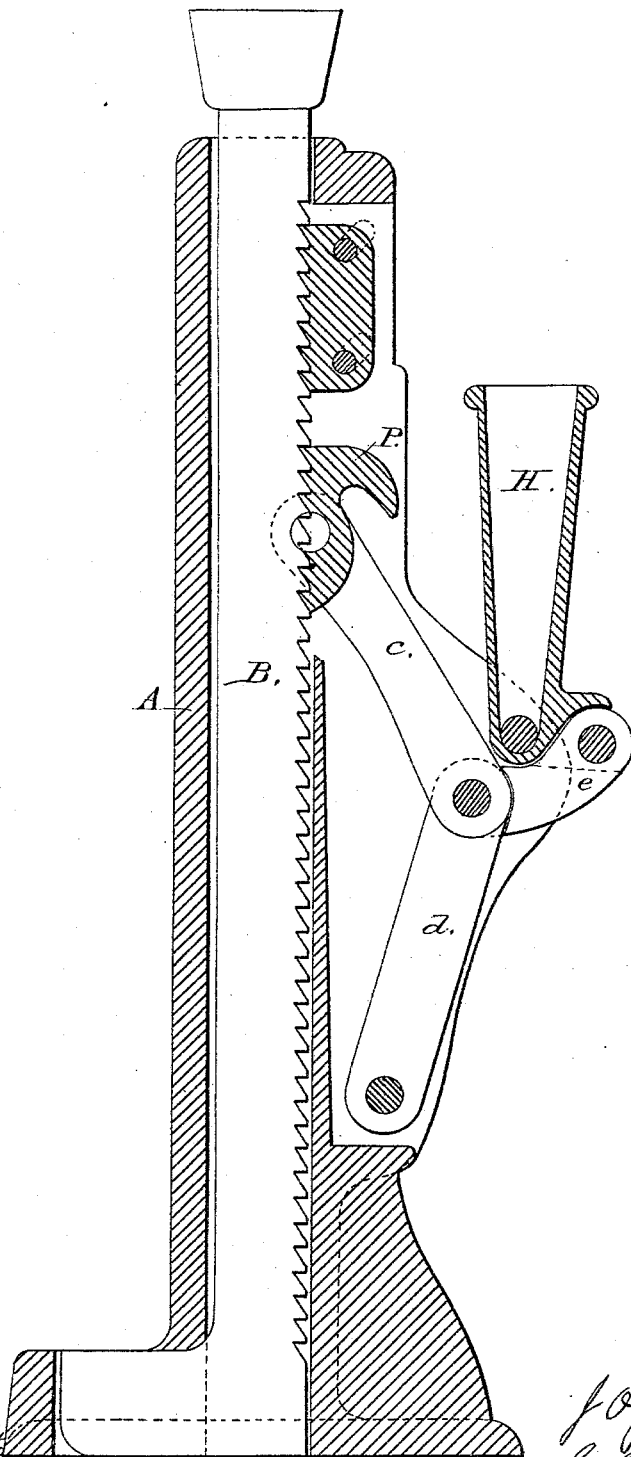


J. O. JOYCE.
Lifting-Jack.

No. 210,946.

Patented Dec. 17, 1878.



Witnesses:
T. C. Brecht
O. E. Duff

Inventor:
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UNITED STATES PATENT OFFICE.

JACOB O. JOYCE, OF DAYTON, OHIO.

IMPROVEMENT IN LIFTING-JACKS.

Specification forming part of Letters Patent No. **210,946**, dated December 17, 1878; application filed August 30, 1878.

To all whom it may concern:

Be it known that I, JACOB O. JOYCE, of the city of Dayton, Montgomery county, Ohio, have invented a new and useful Improvement in Lifting-Jacks, which improvement is fully set forth in the following specification, reference being had to the accompanying drawings.

This invention relates to the class known as "lever-jacks."

A is the frame of the jack; B, the lifting-bar; P, the lifting-pawl; H, the main lever, provided with a socket for the insertion of a turned wooden handle; *c* and *d*, short levers, constituting a knuckle-joint; *e*, a short link, connecting *c* and *d* with H.

The depression of the lever H, by means of its wooden handle, (not shown in the drawing,) carries the common fulcrums of *c* and *d* toward the frame, which causes the pawl P to rise, which, engaging with the teeth of the lifting-bar, raises it with its load.

I claim as my invention—

In a lifting-jack, the combination of the short levers *c* and *d* with the link *e*, lever H, and pawl P, substantially as specified.

J. O. JOYCE.

Witnesses:

EDWIN L. CRIDLAND,
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