N. SCHWAGEL.

Lifting-Jacks.

No. 154,961. Patented Sept. 15, 1874.

Fig 1

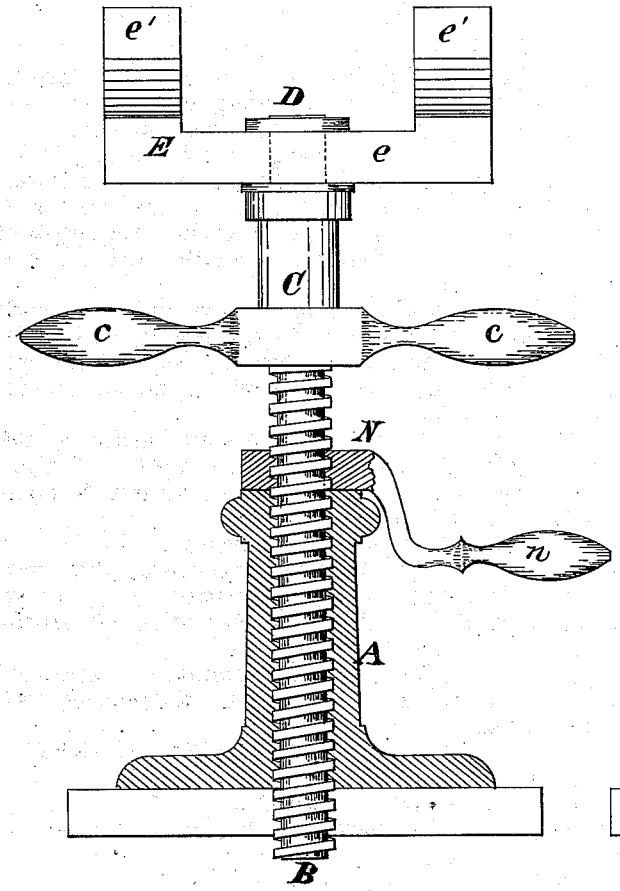
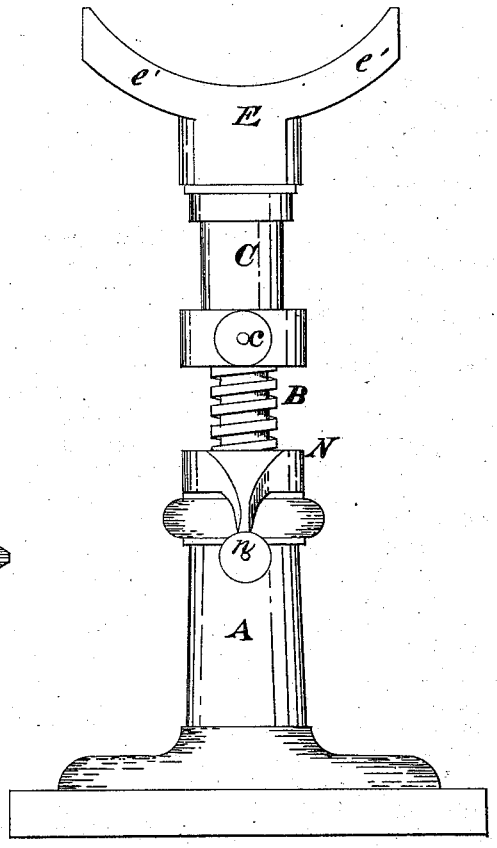


Fig 2.



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UNITED STATES PATENT OFFICE.

NICHOLAS SCHWAGEL, OF DAYTON, OHIO.

IMPROVEMENT IN LIFTING-JACKS.

Specification forming part of Letters Patent No. **154,961**, dated September 15, 1874; application filed July 20, 1874.

To all whom it may concern:

Be it known that I, NICHOLAS SCHWAGEL, of Dayton, in the county of Montgomery and State of Ohio, have invented an Improved Jack for Lathes, of which the following is a specification:

My invention relates to lifting-jacks; and consists in the construction and adaptation of a screw lifting-jack to lathe use, for lifting shafting and other heavy work to position in the lathe, and in the use of a jam-nut for keeping the jack in any desired position.

Figure 1 is an elevation of my improved jack, the lowest part being in section. Fig. 2 is an elevation at right angles to Fig. 1.

A is a hollow standard, with a female screw cut on its inner side, into which fits the long screw B. At the upper end of B is a cap, C, with arms *c c* for working the screw. A head or support, E, is bolted or pivoted to the top of the cap C in such manner that it is free to revolve in a horizontal plane. This support is formed of a cross-piece, *e*, with the pivot D in the middle, and with arms at each end, which are curved outward and upward, so as to receive the work, (a cylindrical shaft, for example,) and support it firmly.

The form shown is designed for heavy shafting or cylindrical work. Other forms may be used to adapt the head to different classes of work; but the head must be so constructed as to be capable of supporting the work, and permitting it to be reversed when necessary.

A piece of shafting, or other work to be turned, is placed on the support E, and raised by turning the screw B, by means of the handles *c c*. When it has reached the required height it is fitted into the lathe, and the jack removed.

The head E being pivoted at D, the work may be reversed or turned end for end, when desired, and, as two points of support are provided, the work is entirely supported upon a simple jack.

To prevent the screw being turned by the friction between the head E and cap C when reversing the work, I use a jam-nut, N, operated by a handle, *n*.

What I claim as my invention is—

1. A lifting-jack for lathe-work, when provided with a head, E, constructed to receive and give firm support to the work to be turned, substantially as described.

2. The combination of standard A, screw B, head E, and jam-nut N, for the purpose set forth.

NICHOLAS SCHWAGEL.

In presence of—

JOHN L. H. FRANK,

J. LINXWEILER, Jr.