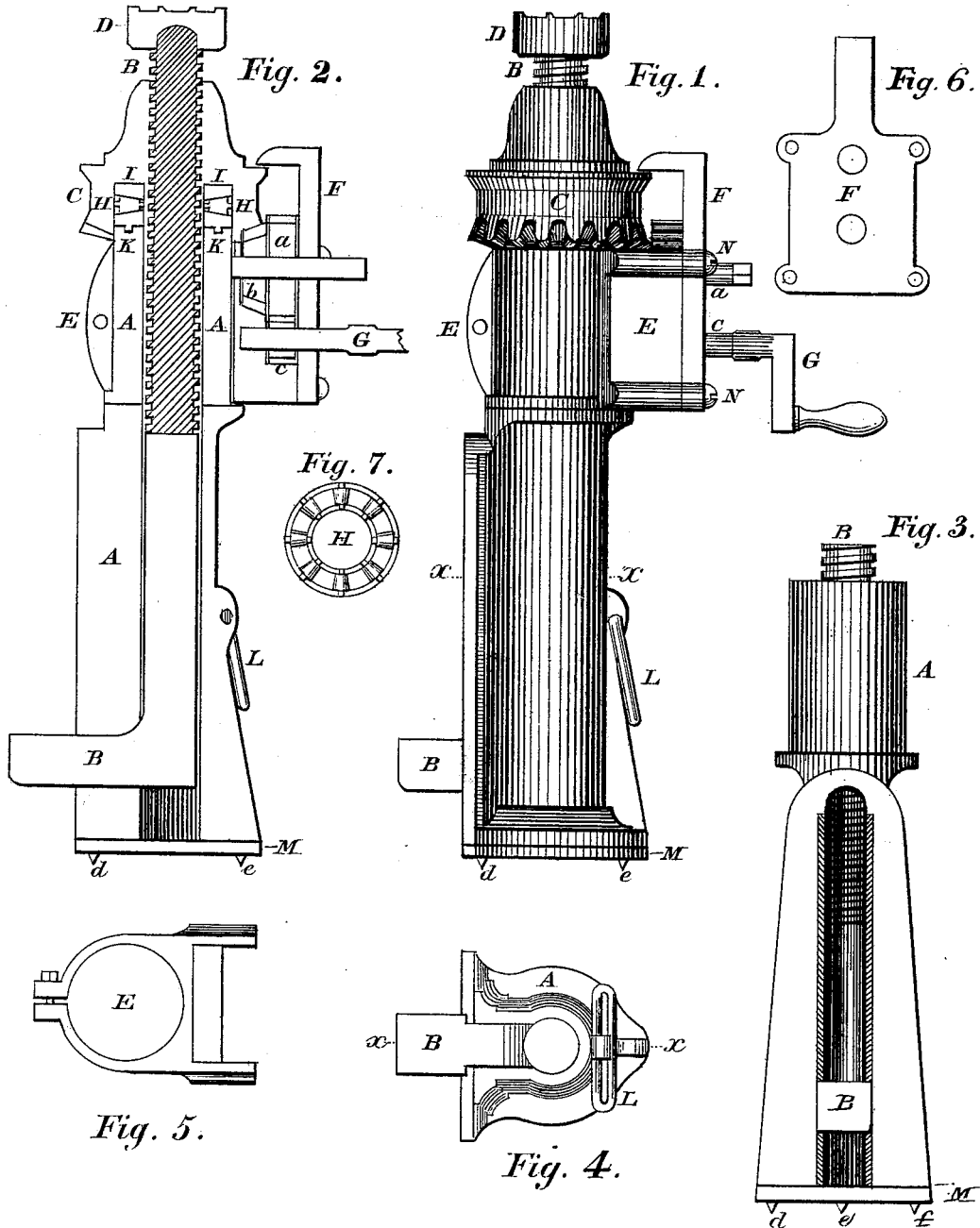


F. TISCHER.
Lifting-Jack.

No. 219,834.

Patented Sept. 23, 1879.



Witnesses;
John Brumholz
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UNITED STATES PATENT OFFICE.

FREDERICK TISCHER, OF CHAMBERSBURG, NEW JERSEY.

IMPROVEMENT IN LIFTING-JACKS.

Specification forming part of Letters Patent No. **219,834**, dated September 23, 1879; application filed August 23, 1879.

To all whom it may concern:

Be it known that I, FREDERICK TISCHER, of Chambersburg, in the county of Mercer and State of New Jersey, have invented an Improvement in Lifting-Jacks, of which the following is a specification.

The object of this invention is to furnish an improved gear-screw lifting-jack; and the invention consists in the peculiar construction and combination of the constituent parts of the machine, as will be hereinafter described and claimed.

Figure 1 is a complete side elevation. Fig. 2 is a vertical intersection of the same. Fig. 3 is a front view, omitting the head and clamp-joint. Fig. 4 is a horizontal intersection of the lower part of Fig. 1, indicated by *xx*. Fig. 5 is a horizontal view of the clamp-joint. Fig. 6 is a front view of a cover to the clamp-joint. Fig. 7 is a turn-table.

Letters of reference indicate corresponding parts.

In these drawings, A is the base, formed of iron. B is the male screw. D is the head, which may be rigidly secured to the screw or

arranged to revolve thereon, as desired. E is the clamp-joint, holding gears *abc*, and revolving on base A. F is the cover to the clamp-joint and of the bearings of gear-wheels *a*, *b*, and *c*, with a hook to keep the female screw C in its place. G is the handle of the gears *abc*. H is the turn-table on which rests the female screw C. The steel collar I is fastened in the female screw, and steel collar K is fastened on the base A. L is a handle for carrying the lifting-jack. M is a wrought-iron plate, which is adjusted to the base by three pointed screws, *d e f*, to secure it from slipping. N are screws to hold the cover of the clamp-joint.

I claim as my invention—

The combination of the base, the male screw with lifting-foot, the female screw C, running on the turn-table H by gear *abc*, and the clamp-joint within which the gear-wheels are inclosed.

FREDERICK TISCHER. [L. s.]

Witnesses:

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