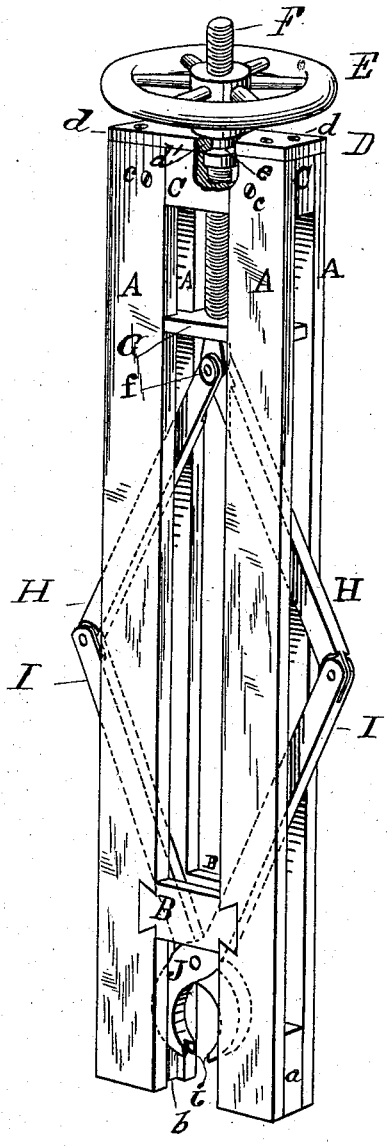
(Model.)

J. S. HOOD.

LIFTING JACK AND SPIKE PULLER.

No. 263,783. Patented Sept. 5, 1882.



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JOSEPH S. HOOD, OF STAHLSTOWN, PENNSYLVANIA.

LIFTING-JACK AND SPIKE-PULLER.

SPECIFICATION forming part of Letters Patent No. 263,783, dated September 5, 1882.

Application filed March 1, 1882. (Model.)

To all whom it may concern:

Be it known that I, JOSEPH S. HOOD, a citizen of the United States of America, residing at Stahlstown, in the county of Westmoreland and State of Pennsylvania, have invented certain new and useful Improvements in Lifting-Jacks and Spike-Pullers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawing, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to specific improvements in that class of tools known as "lifting-jacks," "track-raisers," and "spike-pullers;" and it consists in certain details of arrangement and construction hereinafter described, and specifically set forth in the claim.

The drawing represents in perspective a tool of the class mentioned constructed in accordance with my invention.

A represents the standards, of which there are four. These and the remaining portions of the frame-work are constructed of bar-iron. B B are two cross-bars, dovetailed into the standards, as shown. C is the top bar, mortised and tenoned to fit within the four standards, which are secured thereto by screws or bolts *c*, or it may be by welding. On the top of all is suitably secured the plate D, consisting of two parts, *d d*, each at the central line of division provided with a projecting circular flange, *d'*, adapted to fit in a groove, *e*, in the hub of a hand-wheel, E. The hand-wheel hub is internally screw-threaded to fit the screw F, the lower end of which is provided with a cross-bar, G, rigidly attached thereto and mortised and tenoned to slide up and down between the eight inner sides and edges of the standards, and below said cross-bar the screw F is flattened and perforated to adapt it to be connected by a pivot, *f*, to two arms, H, which are pivotally attached to the extreme ends of the handles I I of a pair of tongs or grippers, J, the jaws of which are notched at *i*. The arms H and handles I are adapted to pass between the standards A. Filling-blocks *a* may, if desired, be inserted at the bottom of the standards and grooved at *b* to guide the grippers J; or additional dovetailed cross-bars may be put at the ends of the frame at the bottom or even with cross-bars B.

The operation of my device is as follows: The hand-wheel is turned until the jaws of the tongs embrace the head of a rail or spike, and is then turned in the opposite direction, which raises the screw, and this causes the jaws to approach each other until they come in contact with the upright flange of the rail or the body of the spike, when the force exerted by the screw is now expended in a direct vertical direction to lift the rail or draw the spike.

Having described my invention and its operation, what I claim as new, and desire to secure by Letters Patent, is—

The combination of the four standards A, dovetailed cross-bars B, tenoned top bar, C, divided flanged top plate, D, with hand-wheel E, having a grooved hub, and screw F, provided with rigid tenoned cross-bar G, pivotally-connected arms H, and tongs J, substantially as shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

JOSEPH S. HOOD.

Witnesses:

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