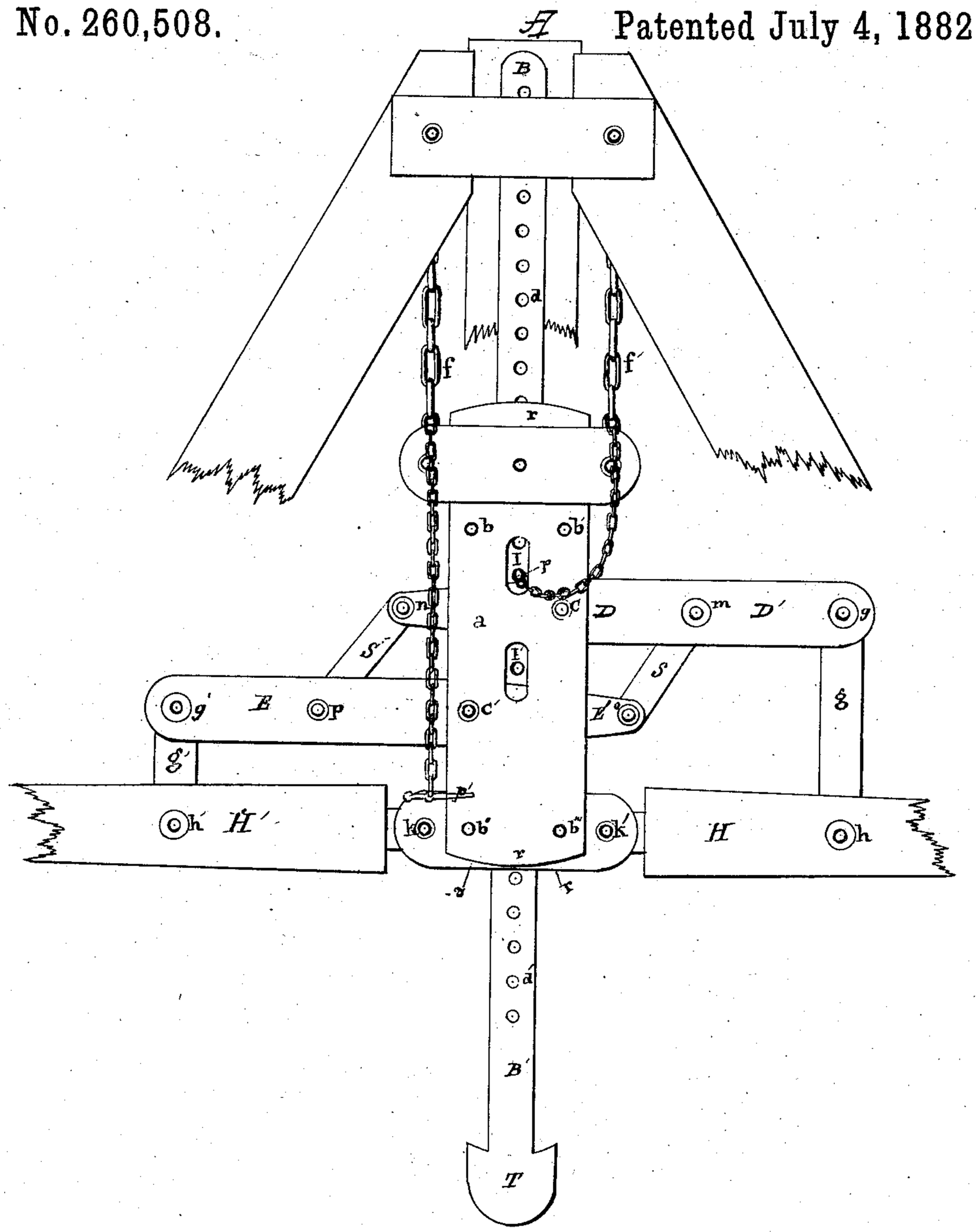
(Model.)

N. VAN HILTMAYER.

STUMP EXTRACTOR.

No. 260,508. Patented July 4, 1882.



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UNITED STATES PATENT OFFICE.

NIKLAS VAN HILTMAYER, OF PORT HURON, MICHIGAN, ASSIGNOR OF ONE-HALF TO ROBERT MACDONALD, OF INGERSOLL, ONTARIO, CANADA.

STUMP-EXTRACTOR.

SPECIFICATION forming part of Letters Patent No. 260,508, dated July 4, 1882.

Application filed October 1, 1881. (Model.)

To all whom it may concern:

Be it known that I, NIKLAS VAN HILTMAYER, of Port Huron, in the county of St. Clair and State of Michigan, have invented a new and Improved Stump-Lifter; and I hereby declare the following to be a full, clear, and exact description thereof, reference being had to the figure representing a side view in the accompanying drawing, making a part of this specification.

The object of my invention is to provide a stump-puller easily transportable, cheap in construction, and extensive in power; and it consists of a frame provided with links to attach it to a tripod or other support, and carrying oscillating linked levers, in combination with a vertical sliding rod or bar provided with holes and pins, as hereinafter more fully described.

In order that those skilled in the art can make and use my invention, I will proceed to describe the manner in which I have carried it out.

In the said drawing, A is a frame, composed of two plates, *a a'*, divided by transverse ribs or rods between their ends, and bolted together by bolts *b b' b'' b'''*, and having cut entirely through both the plates slots I I', provided with links *f f'*, by which to suspend it.

Passing between plates *a a'* is a bifurcated lever, D D', and it is pivoted at *c*. Pivoted to the said lever's extremity, at *n*, is a bar or rod, S', having its other end pivoted in lever E E' at P; and pivoted at *m* on lever D D' is a bar or rod, S, having its other end pivoted to the end of another bifurcated lever, E E', at *o*. Lever E E' is constructed like D D', and is pivoted in the frame at *c'*. In each instance the legs of the bifurcated levers are inclosed in the plates *a a'*, and rest on their pivots on each side of it, and are connected with levers or handles H H' by bars or rods G G', pivoted at *g g'* and *h h'*, while the levers or handles H H' are pivoted at *k k'* to transverse plates or bars between plates *a a'* and bolted by bolts *b'' b'''*. Plates *a a'* have a vertical longitudinal cut, *r*, in them, through which passes a sliding bar, B B', perforated with a line of holes, *d d'*, to suit the size of pins, *p p'*, designed to be placed in them. It will be seen that the bars or rods S S' and G G' always keep the levers D D' and E E' parallel, and require them to move in opposite directions, and they become levers of the first order alternately as they change position, the pivots *c c'* being the fulcrums. At the lower end of bar B B' is a head, T, to fasten to the tackle or rope around the stump.

The operation is as follows: Links *f f* are fastened to the tripod, tree, limb, or any convenient resisting medium, and the head T fastened to the stump, pin *p* being inserted through slot I into one of the holes in bar B, and lever D D' resting against it. When power is applied to handle H to force it down, the bar B is forced upward, depressing the end of lever E E' so far that a pin can be placed over it through slot I', and it in turn lifts bar B until the levers come back into the original position, when the operation is repeated, the pins being moved from hole to hole, gradually forcing bar B upward, and with it the stump.

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

The frame A, constructed as described, and perforated sliding bar B, in combination with levers D D' and E E' and handles H H', pivoted at *c c'* and *k k'*, and provided with connecting bars or rods S S' and G G' and the pins *p p'*, as set forth.

NIKLAS VAN HILTMAYER.

Witnesses:

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