

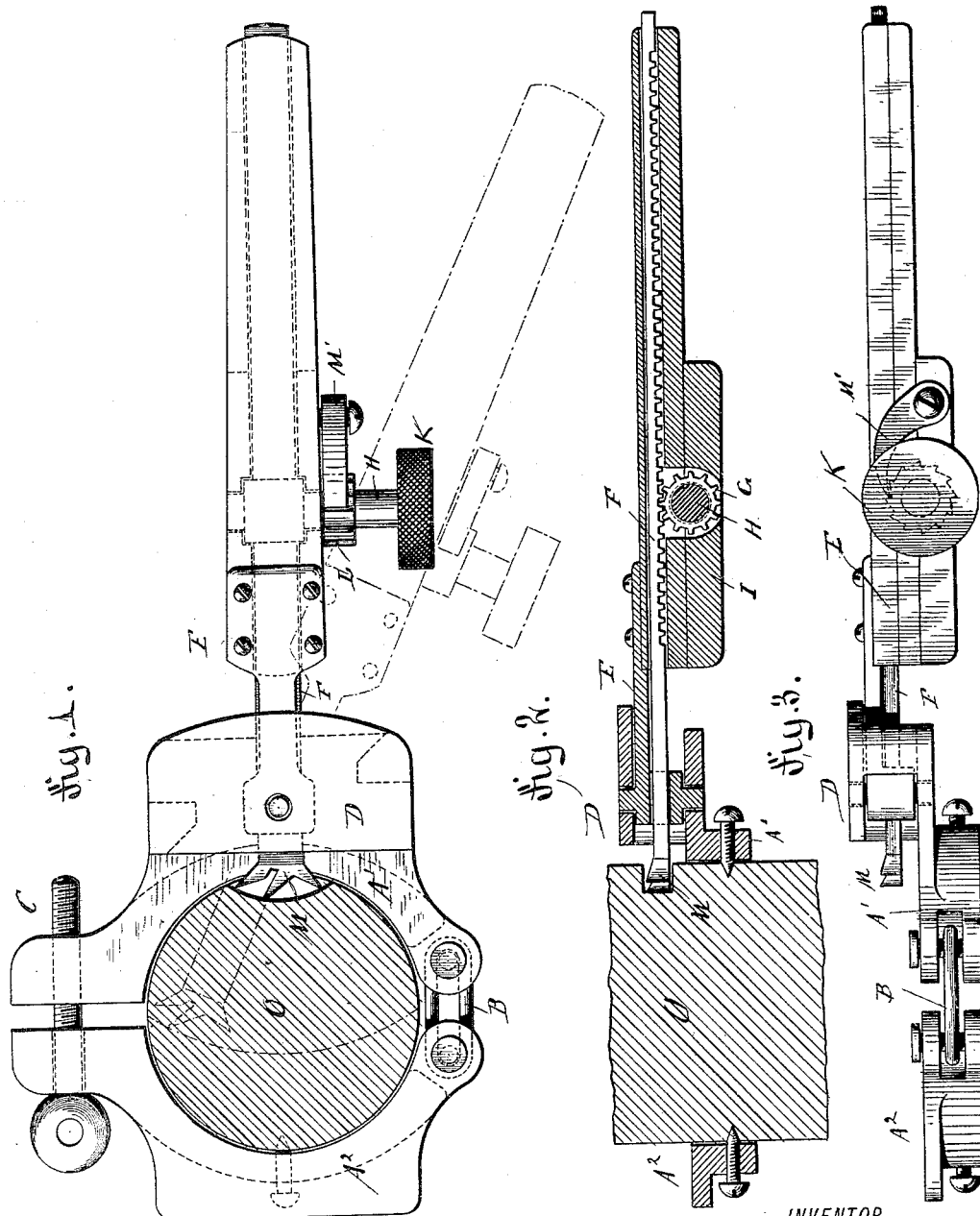
(No Model.)

P. TROST.

APPARATUS FOR CUTTING AND TRIMMING SPILES.

No. 418,993.

Patented Jan. 7, 1890.



WITNESSES:

F. N. Rosenbaum.
Carl Kery

INVENTOR

INVENTOR
Philippe Trost
BY *G. C. & R. C.*
ATTORNEYS

UNITED STATES PATENT OFFICE.

PHILIPP TROST, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF TO JEAN GRAEF, OF SAME PLACE.

APPARATUS FOR CUTTING AND TRIMMING SPILES.

SPECIFICATION forming part of Letters Patent No. 418,993, dated January 7, 1890.

Application filed February 23, 1889. Serial No. 301,554. (No model.)

To all whom it may concern:

Be it known that I, PHILIPP TROST, of the city of New York, in the county and State of New York, a citizen of Germany, have invented certain new and useful Improvements in Apparatus for Cutting and Trimming Spiles, of which the following is a specification.

The object of my invention is to provide a new and improved machine for cutting off and trimming the upper ends of spiles or other posts, which apparatus is simple in construction and operation and can readily be applied on and removed from a spile.

The invention consists in the construction and combination of parts and details, as will be fully described and set forth hereinafter, and finally pointed out in the claims.

In the accompanying drawings, Figure 1 is a top view of my improved apparatus for cutting off and trimming spiles. Fig. 2 is a longitudinal sectional view of the same. Fig. 3 is a side view of the same.

Similar letters of reference indicate corresponding parts.

The holding-frame A is composed of two sections A' and A², each provided in its inner edge with a semicircular recess, so as to adapt the said frame to fit snugly on a spile. Said frame-sections are united at one end by a link B, and at the opposite end they are united by a screw C, by means of which they can be firmly and tightly clamped on a spile. The section A' is provided with a box-shaped slotted extension D, in which a lever E is pivoted to swing to and fro laterally—that is, in the plane of the said extension or of the frame A. Said lever is made hollow and contains the sliding rack F, that engages the pinion G, mounted on the shaft H, journaled in lugs I on the under side of the said lever. Said shaft is provided with a hand-wheel K and with a ratchet-wheel L, engaged by a pawl M', pivoted to one of the lugs I.

One end of the rack-bar F projects beyond the recessed or curved edge of the section A', and on said end of the rack a cutter M, of any suitable construction, is formed, the plane of said cutter being above the plane of the section A' A².

The operation is as follows: The frame A is clamped on the spile O that is to be cut off, the cutter M being withdrawn so as not to project beyond the recessed or curved edge of the section A. The pointed ends of screws A' A², and by clamping said sections on the spile the points of the screws are forced into the spile, thus holding said sections in place. By turning the hand-wheel K the cutter M is moved toward the spile sufficiently to cut into the same, and then the lever E is rocked to and fro to cause the cutter to cut into the spile. As the lever E is being rocked the cutter M is moved in the direction toward the spile, so as to gradually cut deeper and deeper into the spile. The cutter is moved forward or back by turning the hand-wheel and the pinion that engages the rack.

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

1. The combination, with a frame adapted to be held on a spile, of a rocking lever on said frame, a sliding cutter on said frame, and a device, substantially as herein shown, for moving the cutter toward or from the spile, substantially as set forth.

2. The combination, with a frame adapted to be held on a spile, of a rocking lever on said frame, a sliding rack on the lever, a cutter on the end of said rack, and a pinion mounted on a shaft on the lever and engaging the rack, substantially as set forth.

3. The combination, with the frame-sections A' and A², of the link B, uniting the two sections, the screw C in the two sections, the lever E, pivoted on the section A', the sliding rack K in said lever, the shaft H, the pinion G, engaging the rack K, and the cutter M, formed on the end of the rack, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

PHILIPP TROST.

Witnesses:

OSCAR F. GUNZ,
CARL KARP.