(No Model.)

R. R. WILSON.

Nail and Spike Extractor.

No. 229,220. Patented June 22, 1880.

Fig. 1.

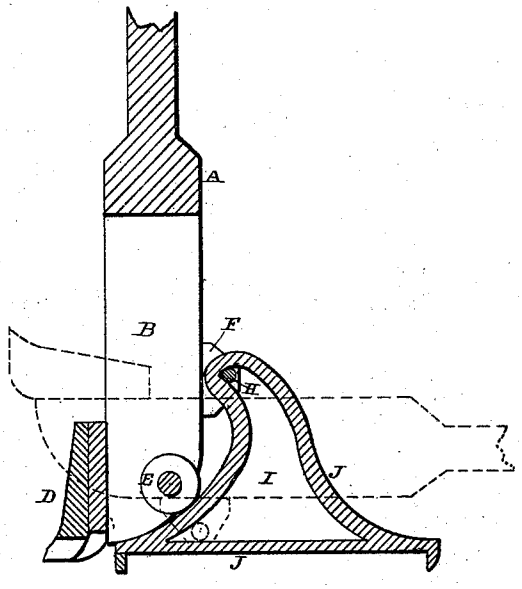
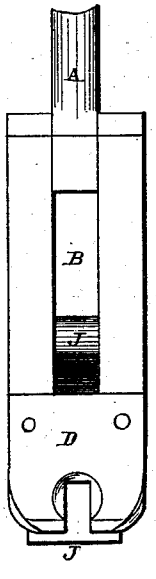


Fig. 2.



Witnesses=
W. W. Mortimer.
C. H. Isham

Inventor=
R. R. Wilson.
per
F. A. Lehmann,
Atty.

UNITED STATES PATENT OFFICE.

RECTOR R. WILSON, OF STEWART, OHIO.

NAIL AND SPIKE EXTRACTOR.

SPECIFICATION forming part of Letters Patent No. 229,220, dated June 22, 1880.

Application filed April 30, 1880. (No model.)

To all whom it may concern:

Be it known that I, RECTOR R. WILSON, of Stewart, in the county of Athens and State of Ohio, have invented certain new and useful Improvements in Nail and Spike Extractors; 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 pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in nail and spike extractors; and it consists in the combination of a slotted lever and a movable foot attached thereto, whereby a fulcrum is formed upon which the lever turns, and thus enables greater power to be applied in drawing the spike or nail.

It further consists in the combination of a slotted lever having journaled in it a friction-roller and a movable foot having an opening through its center, by means of which opening the foot and lever are connected together, as will be more fully described hereinafter.

The object of my invention is to use a roller which is pivoted in the lever as the fulcrum on which the lever shall turn, and provide a slanting surface upon which this fulcrum shall move, whereby the lever can be adapted for drawing spikes which have their heads close to the wood in which they are embedded, or those which have been but partially driven in and have their heads so high above the tie or other piece of wood into which they are being driven that the ordinary spike-extractor can only be used by placing some substance near the spike, and which serves as a fulcrum for the lever.

Figure 1 is a vertical section of my invention. Fig. 2 is a front view of the same.

A represents the lever, which may be of any desired length, and which has a slot, B, made through its lower end. To the lower points of this lever is applied a steel claw or plate, D, for drawing the nails or spikes, and which plate is made removable, so that it can be taken off to be sharpened, or, in case it should be broken, removed and another one put in its place. Journaled between the prongs of this lower end of the lever is the roller E, which forms the fulcrum upon which the lever turns.

To the rear edge of the lever, at any suitable distance above its lower end, are formed or secured the ears F, between which ears is secured a pin or bolt, H, which passes through the opening I in the foot J, for the purpose of attaching the foot and lever permanently together. This foot has a curve formed upon its front side, as shown in Fig. 1, so that while the lever is in an elevated position the rolling fulcrum will always bear upon it, and thus enable the claw to be used equally well either when in direct contact with the top of the tie or other piece of wood in which the spike or nail is embedded or when the head of the nail or spike is some distance above the wood. By thus making the bearing-surface of the roller curved, as shown, the roller can move along the foot, and thus enable the lever to accommodate itself to different positions without the necessity of the operator constantly shifting the lever so as to find a suitable fulcrum.

By having a hole through the body of the foot and connecting it to the lever by means of the pin H, the foot and the lever are always connected together and ready for use without any special adaptation of the two parts by the operator. By providing the foot with the sharp points shown on its under side there is no danger of the foot slipping when placed upon greasy ties.

Having thus described my invention, I claim—

In a nail and spike extractor, the combination of a lever, A, having the slot B, the foot J, having the opening through it, the pin H, for connecting the foot and lever together, and the rolling fulcrum E, for bearing on the curved front of the foot, substantially as shown.

In testimony that I claim the foregoing I have hereunto set my hand this 26th day of April, 1880.

RECTOR R. WILSON.

Witnesses:

B. S. PLUMLY,

J. M. MELCHI.