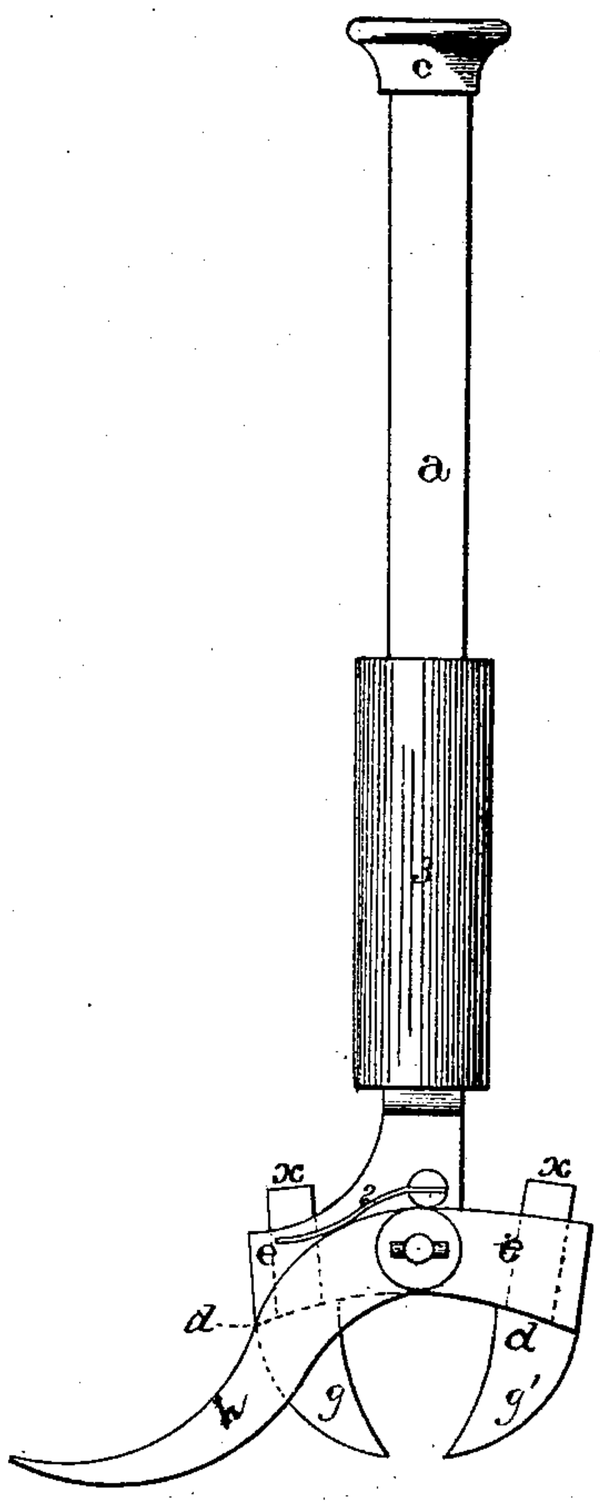
G. C. TAFT.

Nail-Extractors.

No. 145,975. Patented Dec. 30, 1873.



WITNESSES.

H. K. Duhamel
Alex Davidson)

INVENTOR.

Geo C. Taft
Per H. C. Abbot
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UNITED STATES PATENT OFFICE.

GEORGE C. TAFT, OF WORCESTER, MASSACHUSETTS.

IMPROVEMENT IN NAIL-EXTRACTORS.

Specification forming part of Letters Patent No. **145,975**, dated December 30, 1873; application filed April 14, 1873.

To all whom it may concern:

Be it known that I, GEO. C. TAFT, of Worcester, county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Nail and Spike Extractors, of which the following is a specification:

The invention is an improvement upon the device shown and described in Letters Patent of the United States, No. 107,121, granted George C. Taft, for improvement in nail-extractors, September 6, 1870, and relates to an improved nail-extractor; and consists of a bar having secured to its lower end a pair of nippers, one of which is operated by a lever pivoted upon an elbow in the lower end of the shaft, upon which is placed a sliding ram for driving the points of the nippers into the material adjacent the head of the nail, the other nipper being secured in the end of the elbow.

The nippers are formed with shanks, which fit securely into sockets in the end of the lever and elbow, and are provided with broad shoulders, which come in contact with the under sides of the elbow and lever adjacent the sockets which receive the shanks of the nippers.

The object of the invention is to provide a nail-extractor operated by a sliding ram, and having nippers capable of being removed when broken, and of resisting displacement under the blows of the ram.

In the accompanying drawing, *a* represents a shaft having a handle, *c*, upon its upper end, and a ram, 3, sliding upon its center, its lower end being formed into an elbow and provided with a socket, *e*, to receive the shank *x* of the nipper *g*, which is rigidly secured in the socket, the nipper being provided, adjacent its shank, with a broad shoulder, *d*, which rests against the metal adjacent the socket *e*. Pivoted to the rod *a* in the line of its axis is the lever *h*, which is held in position by the spring 2, one of its ends projecting beyond the nipper *g* a proper distance, and the other provided with the nipper *g'*, secured to the lever in a manner similar to that in which the nipper *g* is secured in its place.

The purpose of the lever *h* is to regulate the position of the nipper *g'*.

The nippers *g g'* are placed exactly opposite each other, and have their biting-edges properly curved inwardly.

The nippers being placed about the head of the nail the lever *h* is elevated, bringing the biting-edges of the nippers close to the nail. The ram 3 is now operated, driving the ends of the nippers into the material adjacent the nail, when the same may be extracted.

It is obvious that should the nippers be broken they can readily be removed for grinding or repairing. At the same time their broad shoulders *d* prevent their being forced up into the sockets, and so rendered useless.

I do not claim, broadly, an adjustable nipper or a sliding ram, as such devices are well known; but

What I do claim as my invention, and desire to secure by Letters Patent, is—

The shaft *a*, provided with the ram 3, in combination with the removable nippers *g g'*, provided with the shoulders *d*, substantially as and for the uses and purposes shown and described.

In testimony that I claim the foregoing as my invention I hereunto affix my signature this 10th day of April, 1873.

GEO. C. TAFT.

Witnesses:

CHARLES WHITNEY,

B. F. GRISWOLD.