

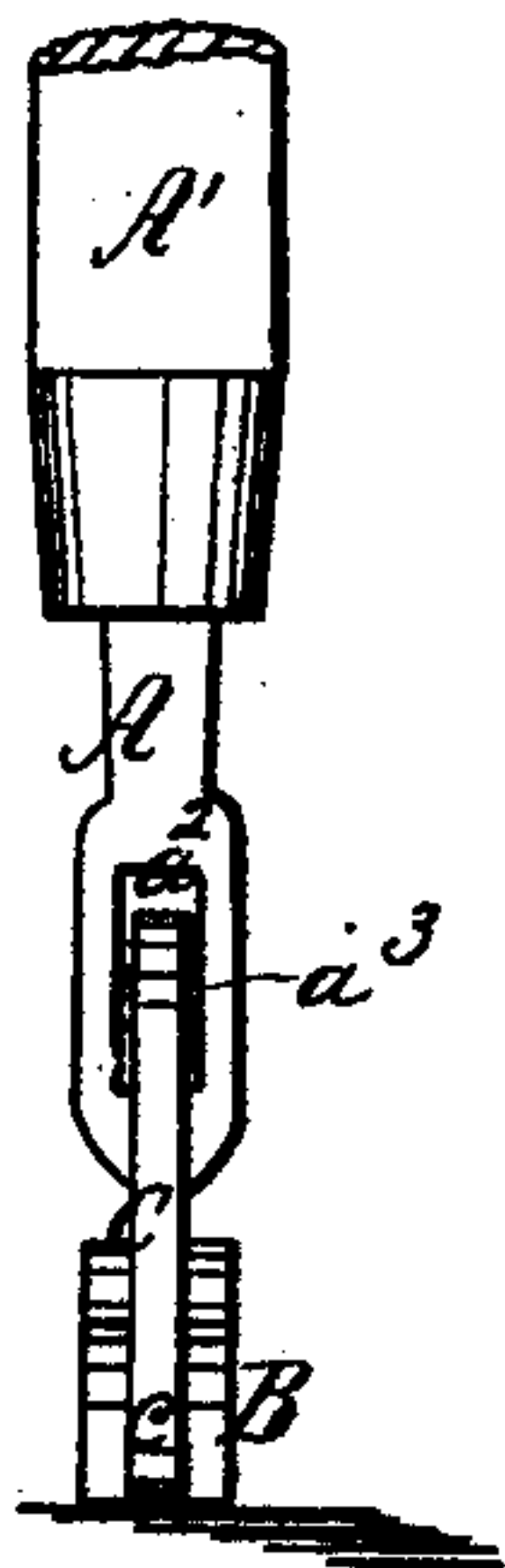
*W. H. H. H.*

*Nail Extractor.*

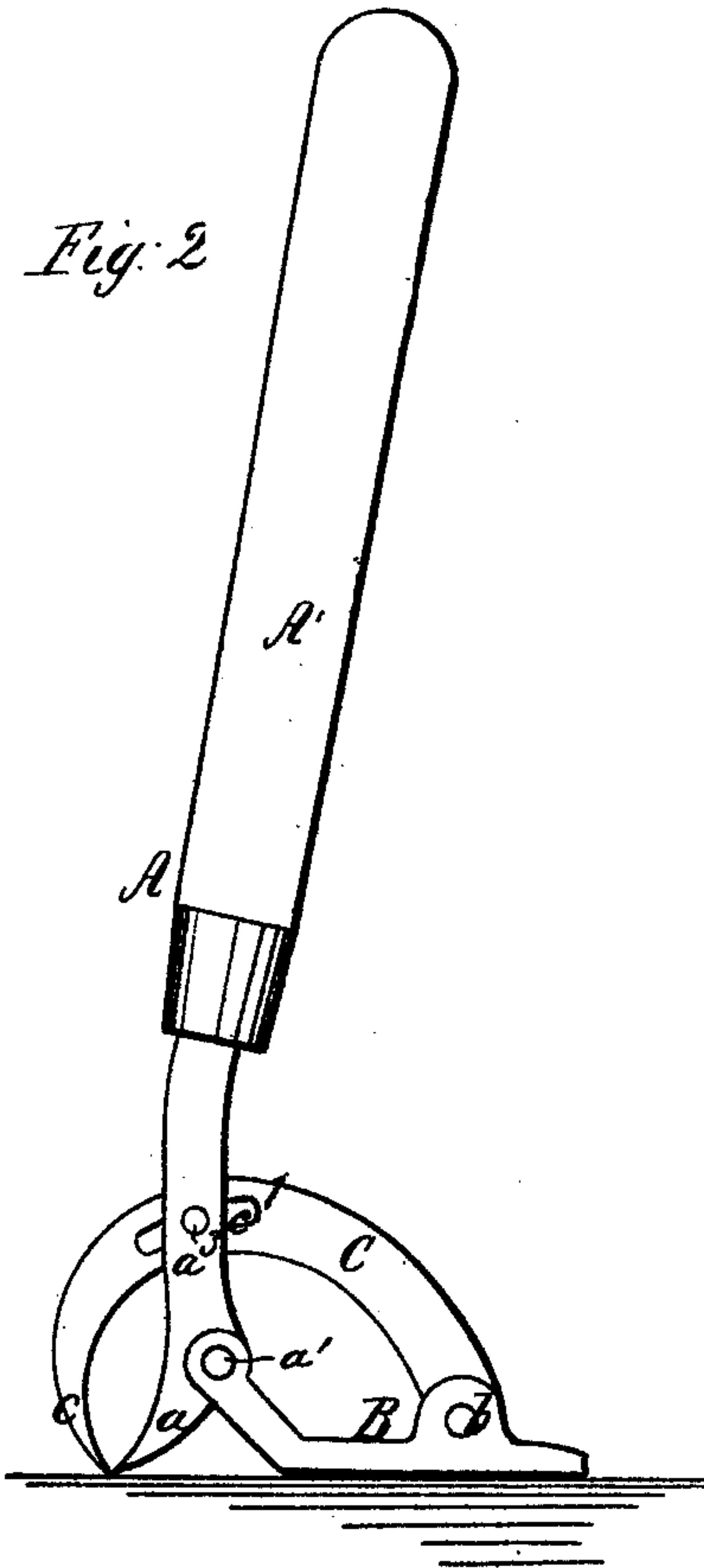
*Nº 9,452.*

*Patented Jan. 15, 1869.*

*Fig. 1.*



*Fig. 2.*



*Witnesses;*  
*Wm. W. H. H.*  
*Robert. H. H.*

*Inventor;*  
*Wm. H. H. H.*  
*Wm. H. H. H.*

# United States Patent Office.

WILLIAM KNAUS, OF OTTERVILLE, MISSOURI.

*Letters Patent No. 91,452, dated June 15, 1869.*

## IMPROVEMENT IN NAIL-EXTRACTOR.

The Schedule referred to in these Letters Patent and making part of the same.

### *To all whom it may concern:*

Be it known that I, WILLIAM KNAUS, of Otterville, in the county of Cooper, and State of Missouri, have made certain new and useful Improvements in Nail-Extractors; and I do hereby declare that the following is a full and clear description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The object of this invention is to produce an instrument for the extraction of nails from boxes, &c., without destroying or injuring the box, or piece from which the nail is drawn.

Briefly, the instrument consists of a lever, sharpened at its outer end in a hook-like form, and provided with a handle, by means of which to operate it.

The lower end of the lever is fulcrumed to a bed-plate, to which is also pivoted a counter-hook, which passes through a mortise in the lever, and terminates close in front of the point of the lever, in such a position as to grasp the head of the nail between these two hooks.

To enable those skilled in the art to make and use my improved nail-extractor, I will proceed to describe its construction and operation.

The drawing represents a side and front elevation of the improved nail-extractor.

The lever A is of metal, and has a sharp point, *a*, and a handle, A', by means of which to operate it.

A short distance above its point, the lever A is fulcrumed by the pivot *a*<sup>1</sup> to the base, or fulcrum-plate B.

At or near the heel of this plate, the counter-hook C is pivoted to it by means of the pin *b*.

From this pivot-point the said counter-hook curves forward, and passes through a mortise at *a*<sup>2</sup>, in the lever A, and terminates at *c* in a kind of claw-hook, directly in front of the hook, or sharp point *a*.

At the point where the hook C passes through the mortise of the lever A, a small rivet, *a*<sup>3</sup>, passes through a curved slot, *c*, in the piece C, and permits it to play back and forth in the said mortise, but prevents it from being wholly withdrawn therefrom.

The mode of operating this instrument is as follows:

By means of its handle the sharp hook *a* is pressed down into the wood, close by the side of the nail to be drawn, and then the handle A' is to be pressed back on the fulcrum-plate B, thereby bringing the point of the hook C in contact with the front of the nail-head, which is then firmly seized between the two hooks, and by pressing farther back on the lever, will be extracted.

What I claim, is—

The implement herein described, consisting of the fulcrum-plate B, the hook C, and lever A, all constructed and arranged as set forth.

In testimony of which invention, I hereunto set my hand and seal, in presence of—

WILLIAM KNAUS. [L. S.]

Witnesses:

M. RANDOLPH,

GEO. P. HERTHEL, Jr.