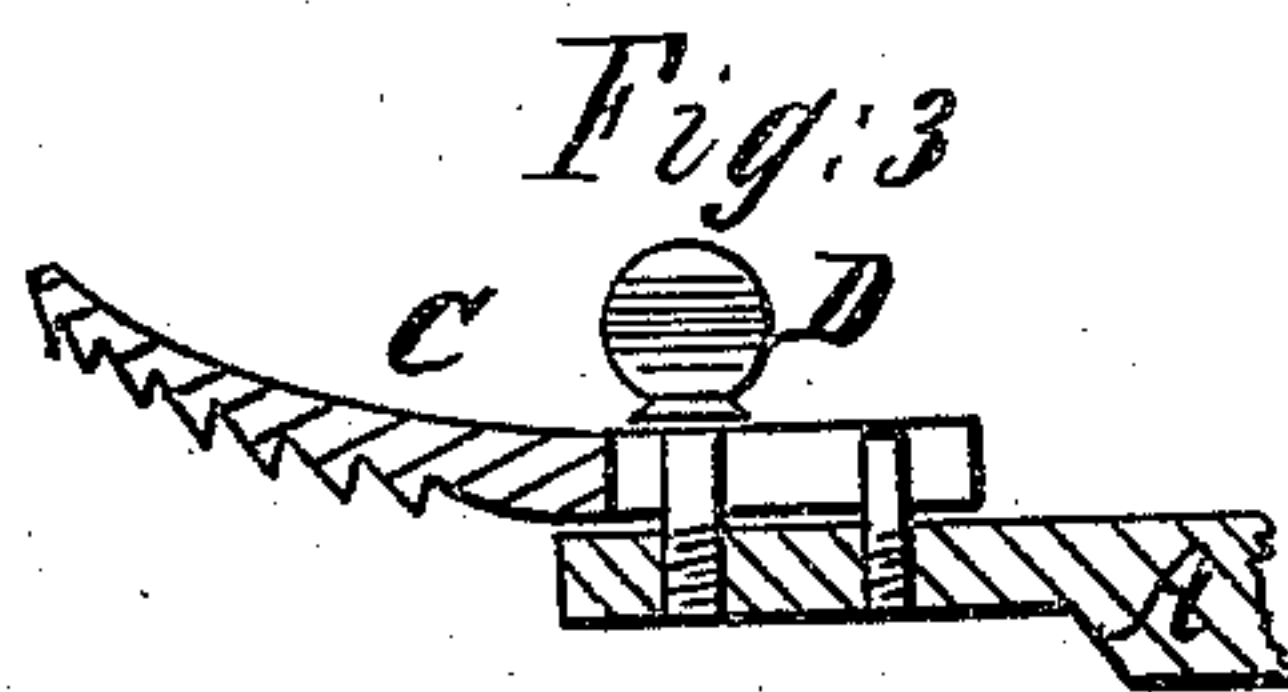
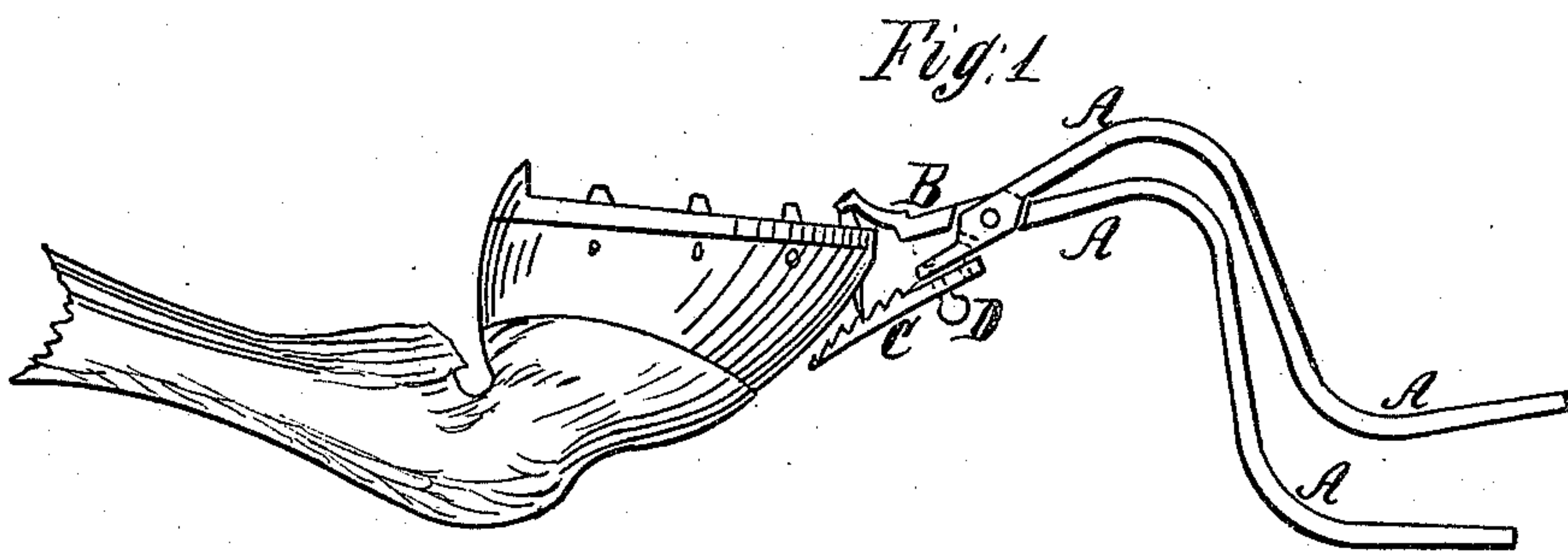


Fisher & Mack,

Horse Shoe Nail Clincher.

No. 88,378.

Patented Mar. 30, 1869.



Witnesses

*A. W. Almquist
H. M. Morgan*

Inventors

*E. E. Fisher
W. H. Mack*

*per Munn & Co
Attorneys*



E. E. FISHER AND WILLIAM H. MACK, OF INDIANOLA, ILLINOIS.

Letters Patent No. 88,378, dated March 30, 1869.

IMPROVEMENT IN HORSE-SHOE-NAIL CLINCHER.

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

To all whom it may concern:

Be it known that we, E. E. FISHER and WILLIAM H. MACK, of Indianola, in the county of Vermillion, and State of Illinois, have invented a new and improved Horse-Shoe-Nail Clincher; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side view of our improved horse-shoe-nail clincher.

Figure 2 is a detail top view of the adjustable jaw.

Figure 3 is a detail sectional view of the same.

Similar letters of reference indicate corresponding parts.

Our invention has for its object to furnish a simple, convenient, and effective instrument for turning down and clinching horse-shoe nails, so as to obviate the necessity for the use of the rasp, hammer, and clinching-iron, while doing the work neater and better; and

It consists, principally, in the construction of the adjustable and detachable jaw, and in its combination with the other parts of the instrument, as hereinafter more fully described.

A are the handles of the instrument, which are bent into about the shape shown in fig. 1, so as to bring them into a more convenient position when using the instrument.

B is the stationary jaw, which is made with a hook, or projection upon its end, for taking hold of the head of the nail, and which is curved, as shown in fig. 1, to bring the said hook, or projection into a more favorable position for taking hold of the head of the nail.

C is the other jaw, which is made detachable and adjustable by means of a set-screw, D, which passes through a slot in the shank of the said jaw, and screws into the forward end of one of the handles A, as shown in figs. 1, 2, and 3.

The detachable jaw C is kept in line with the han-

dles and stationary jaw, by a guide-pin attached to the said projecting end of the handle, and projecting through the slot in the said detachable jaw C.

The jaw C is made slightly curved, as shown in the drawings, and is provided with teeth upon its inner, or convex side, to take hold of the nail to be turned down and clinched.

This construction enables the jaw C to be extended or contracted, according to the size of the foot to be operated upon, so that the same instrument may be easily and quickly adjusted for use in shoeing a large or small horse, as occasion may require.

The adjustable toothed jaw C should be made of steel, but the other parts of the instrument may be made of wrought, or malleable cast-iron, as may be desired or convenient.

We are aware that the heads of horse-shoe-nail clinchers have been made solid with the handles, but this construction is objectionable, because the heads, when worn, or abraded by use, cannot be replaced without making a new handle.

By our invention this difficulty is avoided, as the head can be replaced by removing it from the handle.

We claim as new, and desire to secure by Letters Patent—

As an improvement in horse-shoe-nail clinchers, the adjustable and detachable toothed jaw C, substantially as herein shown and described and for the purpose set forth.

The above specification of our invention signed by us, this 5th day of December, 1868, and this 12th day of December, 1868.

E. E. FISHER.
WM. H. MACK.

Witnesses for E. E. FISHER:

JAMES T. GRAHAM,
FRANK BLOCKLEY.

Witnesses for WILLIAM H. MACK:

W. A. HILL,
J. B. McHAFFIE.