(No Model.)

H. B. TODD.

CUTTING NIPPERS.

No. 285,446. Patented Sept. 25, 1883.

Fig. 1.

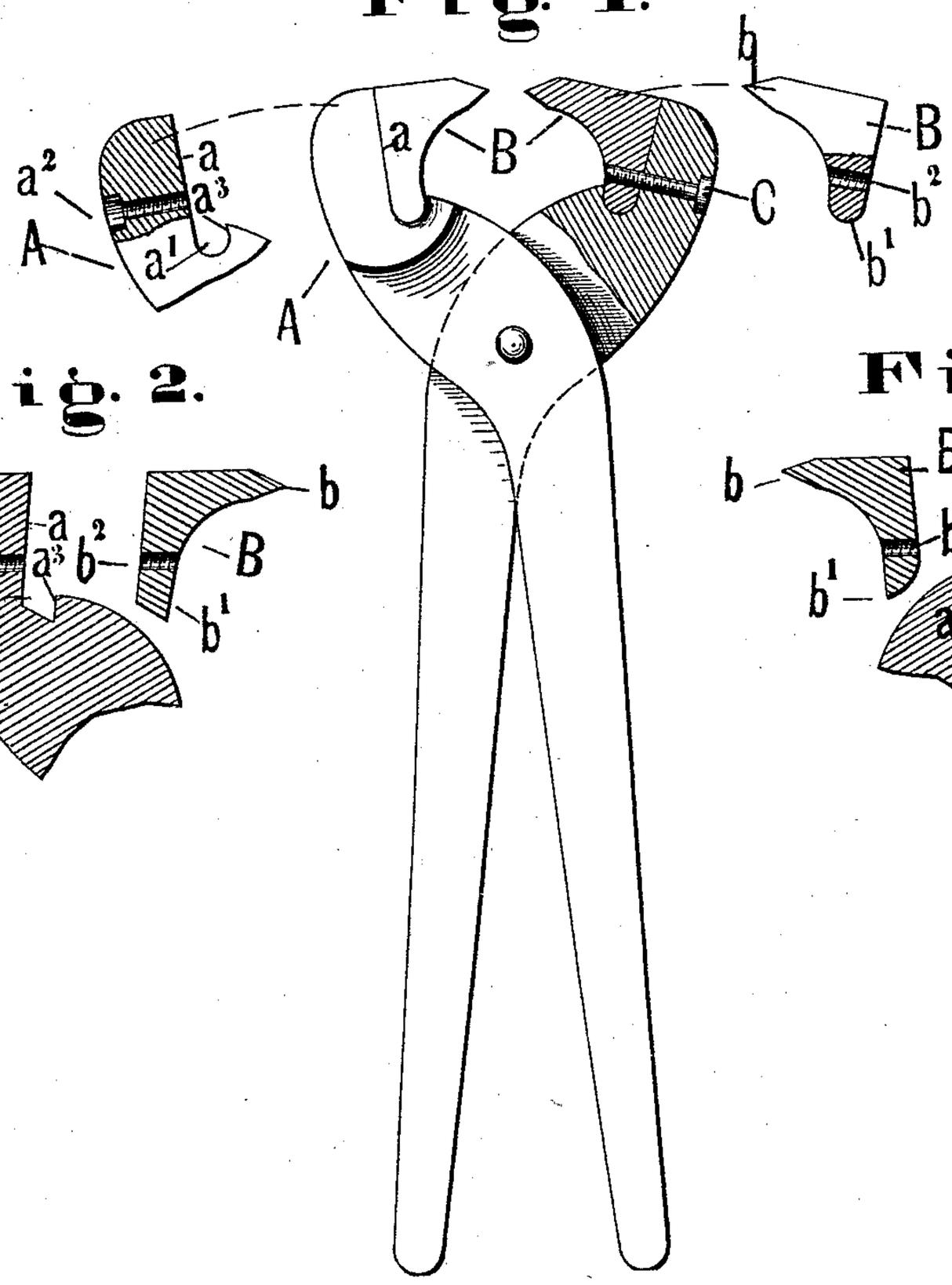
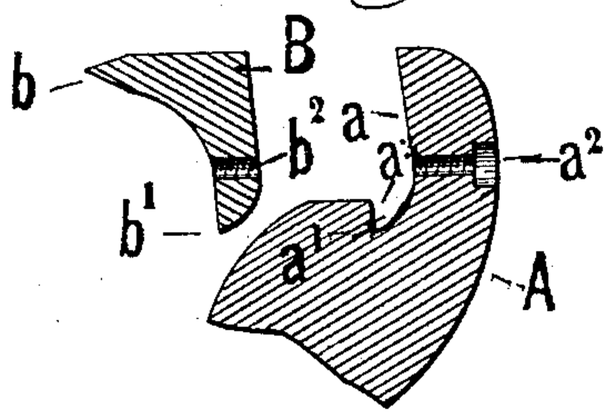


Fig. 2.

Fig. 3.



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UNITED STATES PATENT OFFICE.

HENRY B. TODD, OF MERIDEN, CONNECTICUT.

CUTTING-NIPPERS.

SPECIFICATION forming part of Letters Patent No. 285,446, dated September 25, 1883.

Application filed March 24, 1883. (No model.)

To all whom it may concern:

Be it known that I, HENRY B. TODD, of Meriden, county of New Haven, and State of Connecticut, have invented new and useful Improvements in Cutting-Nippers; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

This invention relates to that class of cutting-nippers which have the blade or cutting portion made separate from the handle portion, for the purpose of permitting the ready removal of that part which is exposed to injury and wear; and it consists of cutting-nippers having similar handle-heads, each provided with a main surface, *a*, located in one plane, and an auxiliary bearing-surface, a^3, located in a plane opposite thereto, with an independent cutter having bearing-surfaces coinciding therewith, and a securing-screw extending through the head and cutter at or nearly at right angles to the bearing-surfaces, as will be fully described hereinafter.

In the drawings, Figure 1 is a side view of my improved tool, partially broken away to better show the construction; and Figs. 2 and 3, partial sectional views, illustrating slight modifications of form.

To enable others skilled in the art to make my improved tool, I will proceed to describe fully the construction of the same.

A represents the head of one of the handles, constructed, generally, in any proper manner and of suitable material, but essentially provided with the main bearing-face *a*, located in one plane, and the auxiliary bearing-face a^3, located in a plane opposite thereto, the base of the recess *a'*, between the two planes, being either curved, as shown in Figs. 1 and 3, or straight, as shown in Fig. 2. The surface between the planes is not a bearing-surface in the sense in which the term is used in this specification—that is, a surface which takes the strain exerted in cutting and requires accurate fitting.

a^2 represents an opening in the head, adapted to receive a screw, the same being made at right angles to the main bearing-face, as shown.

B represents a cutting-blade, consisting of a piece of steel made in the form of a right angle, with the cutting-edge *b* at one end and the portion *b'* at the other, having bearing-faces coinciding with the main and auxiliary bearing-faces of the handle-head.

b^2 represents an opening for the screw.

C represents a screw, which is adapted to secure the blade to the handle in a manner well understood. This screw is shown as extending entirely through the cutter; but, if desired, it may only extend partly through the same.

Some of the advantages of the described construction are as follows: A very strong connection is formed between the handle-head and the independent blade, the auxiliary bearing, in connection with the main bearing, serving to transfer a large portion of the strain exerted in cutting from the screw to the handle-head. The simplicity of construction is great. The essential bearing-surfaces of the head are two in number, and these can be milled at a single operation with two mills. The independent cutter has also two bearing-surfaces, and these may be finished in the rolls with sufficient accuracy to make the use of the milling-machine unnecessary, it being necessary to dress the cutting-edge only. As a result of this special construction described the cutter, which is the only part requiring renewal, can be produced at a trifling cost.

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

The cutting-nippers described, having handle-heads, each provided with a main bearing-surface, *a*, located in one plane, and an auxiliary bearing-surface, a^3, located in a plane opposite thereto, with an independent cutter having bearing-surfaces coinciding therewith, and a securing-screw extending through the head and through or partly through the cutter at or nearly at right angles to the bearing-surfaces.

This specification signed and witnessed this 21st day of March, 1883.

HENRY B. TODD.

Witnesses:

A. L. OTIS,

CHAS. R. FISK.