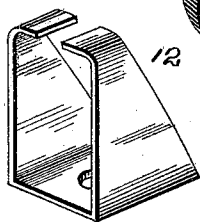
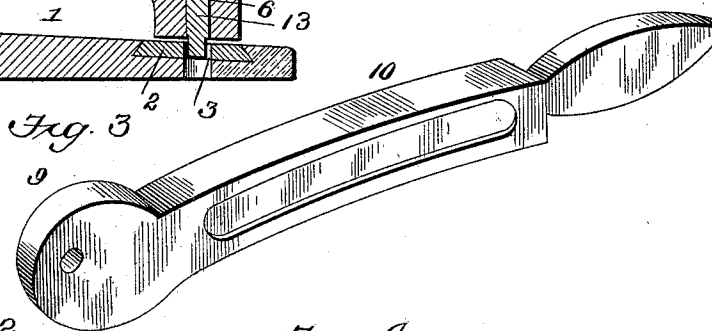
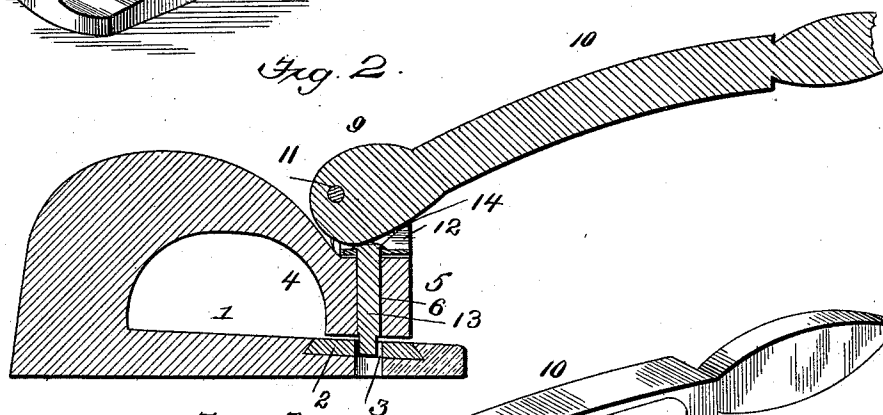
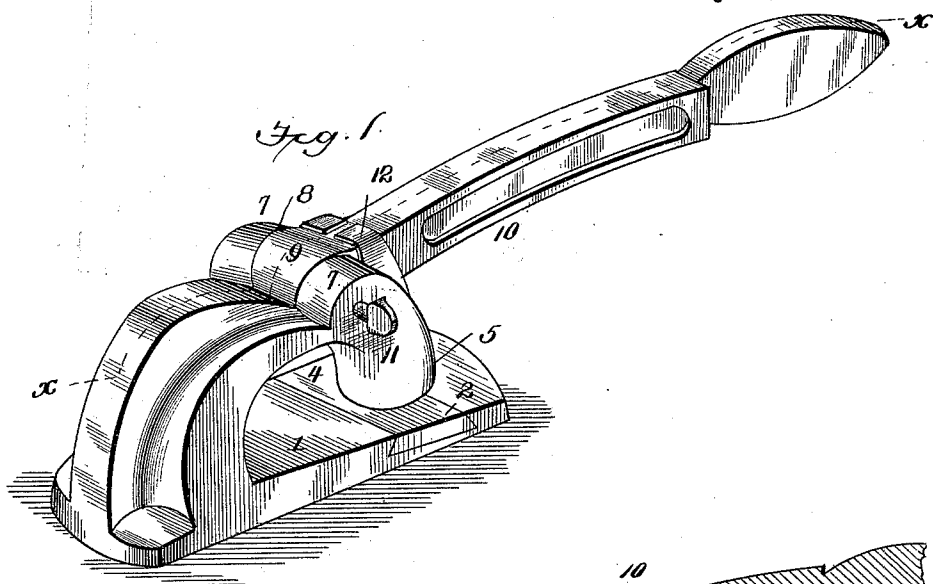


(No Model.)

T. E. CLARK.
METAL PUNCH.

No. 519,240.

Patented May 1, 1894.



Witnesses
John H. Starnes
Chas. E. Hyer

Inventor
Theodore E. Clark
By *John Wedderburn*
His Attorney

UNITED STATES - PATENT - OFFICE.

THEODORE E. CLARK, OF CLEONE, OREGON.

METAL-PUNCH.

SPECIFICATION forming part of Letters Patent No. 519,240, dated May 1, 1894.

Application filed August 17, 1893. Serial No. 483,384. (No model.)

To all whom it may concern:

Be it known that I, THEODORE E. CLARK, a citizen of the United States, residing at Cleone, in the county of Multnomah and State of Oregon, have invented certain new and useful Improvements in Metal-Punches; 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 appertains to make and use the same.

This invention relates to certain new and useful improvements in metal punches, and has for its object to increase the efficiency of such devices without materially adding to the simple construction usually employed.

With these and other objects in view, the invention consists of the construction and arrangement of the several parts which will be more fully hereinafter described and claimed.

In the drawings:—Figure 1 is a perspective view of a punch embodying the invention. Fig. 2 is a central longitudinal section on the line $x-x$ Fig. 1. Fig. 3 is a detail perspective view of the operating handle, yoke and punch removed. Fig. 4 is a detail perspective view of a slightly modified form of punch.

Similar numerals of reference are employed to indicate corresponding parts in the several figures of the drawings.

Referring to the drawings: The numeral 1 designates a base, having a dove-tailed groove in the outer part thereof, with a dove-tailed center-plate 2 removably mounted therein, having an opening 3, aligning with a similar opening in the base and in which the punch works. Rising from the rear of the said base 1, is a goose-neck 4 having a front depending head 5 with a vertical opening 6 extending therethrough. The upper opposite sides of said head 5 are provided with ears 7 having slots 8 on the inner opposing surfaces thereof, and the said ears form an entrance slot for the rear eccentric head 9 of an operating handle 10 which is pivotally mounted between the said ears by a removable pin or pivot 11. Surrounding the said operating handle 10, adjacent to the head 9 thereof, is a yoke 12, having its upper ends turned over the said head 9, and in which is seated at its lower side, a punch 13, having a flanged head 14 secured removably in the lower part of the said yoke.

The lower end of the punch 13 is shouldered as in constructions of a similar nature and as shown in Fig. 4, the extreme lower engaging end of said punch may be beveled in order to more conveniently punch large holes. The slots 8 in the ears 7 permit of the mounting and free movement of the yoke between the said ears and in raising the operating handle to elevate the punch carried by the yoke, the upward movement of said handle is limited by the rear edge of the yoke striking the rear terminating walls of the slots 8 and thereby serving as a guide to determine when the punch is elevated sufficiently to permit the material to be punched to be placed thereunder. By removing the pin or pivot 11 and elevating the handle 10 together with the yoke thereon, the punch can be readily withdrawn from the head 5 and thereby conveniently changed at any time it may be found necessary. The punch is intended especially for gumming cross cut saws and in this latter operation the saw can be gummed in a short space of time without injuring it. It will be understood also that the punch may be made in any size desirable and out of suitable materials and the various manifold advantages of the construction will become readily apparent to those using the device and to those skilled in the art.

Having thus described the invention, what is claimed as new is—

In a punch, the combination of a bed having a removable center-plate with an opening therein and a goose-neck rising from the rear thereof with a head provided with oppositely disposed slotted ears, a handle having a head eccentrically mounted between said ears, and a yoke mounted on said handle and carrying a punch which extends downwardly through said head, the rear portion of said yoke being adapted to engage the rear parts of the slots in the ears to limit the upward movement of the handle, substantially as described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

THEODORE E. CLARK.

Witnesses:

ELMER YOKES,
EDGAR J. SNOW.