

April 10, 1928.

F. GOERTZ ET AL

1,665,256

COMBINATION HOLDER AND GUARD FOR TOOLS

Filed Dec. 27, 1924

Fig. 1

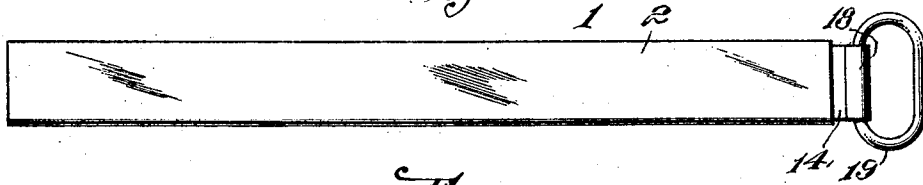


Fig. 2

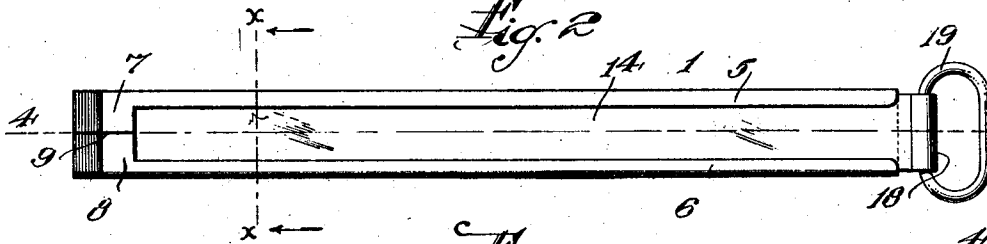


Fig. 3

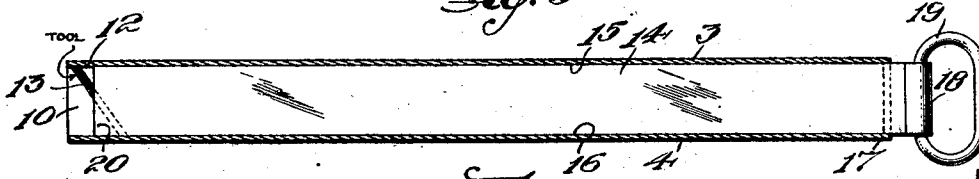


Fig. 4

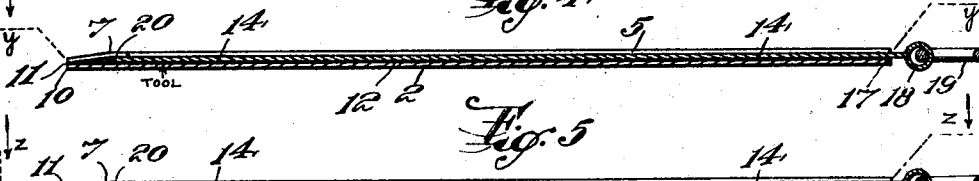


Fig. 5



Fig. 6

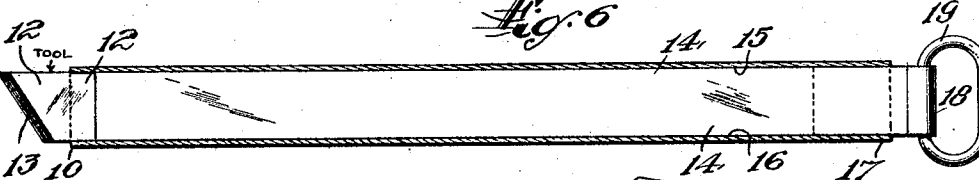


Fig. 7

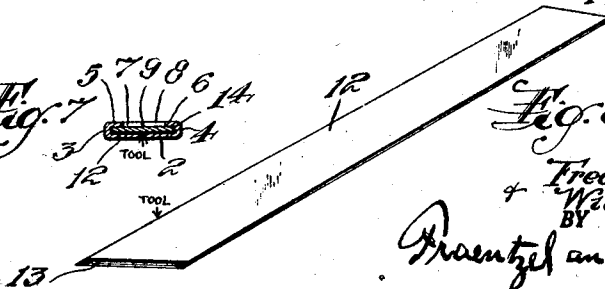


Fig. 8

INVENTORS:
Frederick Goertz
+ William C. Rothe
BY
Praentzel and Richards,
ATTORNEYS.

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UNITED STATES PATENT OFFICE.

FREDERICK GOERTZ AND WILLIAM C. ROTHE, OF NEWARK, NEW JERSEY, ASSIGNORS
TO AUGUST GOERTZ & CO., A CORPORATION OF NEW JERSEY.

COMBINATION HOLDER AND GUARD FOR TOOLS.

Application filed December 27, 1924. Serial No. 758,402.

This invention relates, generally, to improvements in cutting tools; and, the present invention has reference, more particularly, to a novel tool-holder and protecting guard, with a view of providing means adapted for use with a cutter, said means serving as a casing in which the cutter may be secured, when not in use, and from which a portion of the cutter can be forwardly pushed and secured, so that the said casing will also serve as a handle for the cutter.

The present invention has for its principal object to provide a novel and simply constructed holder and protector-guard for tools, and especially for flat cutting blades, or tools of a similar nature.

Other objects of the present invention not at this time more particularly enumerated will be clearly understood from the following detailed description of the present invention.

With the various objects of the present invention in view, the said invention consists, primarily, in the novel tool and combined handle and guard therefor, and hereinafter more fully set forth; and, the said invention consists, furthermore, in the novel arrangements and combinations of the several devices and parts, as well as in the details of the construction of the said parts, all of which will be more fully described in the following specification, and then finally embodied in the clauses of the claims, which are appended to and which form an essential part of the said specification.

The invention is clearly illustrated in the accompanying drawings, in which:—

Figures 1 and 2 are plan views of a tool made according to the principles of the present invention, showing respectively the obverse and reverse faces of the combined tool-holder and guard, in which the cutter is concealed; and Figure 3 is a horizontal sectional representation of the same, showing in plan view a clamping slide and the cutter or blade held in its concealed position therebeneath, said section being represented as being taken on line $y-y$ in Figure 4.

Figure 4 is a longitudinal vertical section, said section being taken on line 4—4 in said Figure 2; Figure 5 is a similar sectional representation of the several devices and parts, showing the cutter or blade clamped in its partly removed relation to

the handle-member and the clamping slide of the tool, ready for use; and Figure 6 is a horizontal sectional representation of the tool, said section being taken on line $z-z$ in said Figure 5.

Figure 7 is a transverse vertical section of the tool, said section being taken on line $x-x$ in Figure 2; and Figure 8 is a perspective view of one form of cutter or blade of the tool.

Similar characters of reference are employed in all of the said above described views, to indicate corresponding parts.

Referring now to the several figures of the drawings, the reference-character 1 indicates a complete tool made according to the principles of the present invention, the same comprising a flat main body-member, as 2, provided along its longitudinally extending marginal edges with right-angled walls 3 and 4, forming guides and with which are connected the laterally and inwardly projecting retaining guide-flanges 5 and 6. At one end, the said guide-flanges 5 and 6 are respectively provided with enlarged portions 7 and 8, brought into abutting relation with each other, as at 9, the said portions 7 and 8 tapering in a downward direction toward the end 10 of the main body-member 2, so as to provide a wedge-shaped opening, as 11, at said end of the body-member, as will be clearly evident from an inspection of Figures 4 and 5 of the drawings.

Freely movable upon said body-member 2, between the longitudinally extending walls 3 and 4, and beneath the guide-flanges 5 and 6, is a flat blade 12 of substantially the same length as the body-member 2, the said blade, in the present case, being provided at one end with a cutting edge, as 13, and the said blade being of such thickness, that its cutting portion can be readily moved back and forth within the wedge-shaped opening 11 hereinbefore mentioned, so as to suitably project the cutting edge of the said blade beyond the said opening 11, substantially as shown in Figures 5 and 6 of the drawings. Disposed upon the upper surface of the said blade 12, with its longitudinally extending marginal edge-portions 15 and 16 projecting beneath the respective guide-flanges 5 and 6 is a flat clamping slide or plate 14. The said plate extends at one end from the end-portion 17 of the main body-member 2, the projecting end of the said slide or plate

14 being formed with an eye 18 for attachment thereto of a finger-piece 19, usually in the form of a wire loop or ring, as shown. The said clamping slide or plate 14 is of such length, that its end-portion 20 can be forced against the lower surface-portions of the downwardly and forwardly tapering portions 7 and 8, whereby all of the various elements are adapted to be brought into clamped assembled relation, either in the positions indicated in Figures 1, 2, 3 and 4 of the drawing, or in the positions represented in Figures 5 and 6 of the drawing.

The manner of bringing the various elements of the tool into their clamped relation, so that the body-member 2 may be used either as an enclosing shell or guard, or as a handle for the blade or cutter, as may be desired, is clearly understood from an inspection of the several figures of the drawings, and any further description of the same is therefore deemed unnecessary.

Of course we are aware, that some changes may be made in the general arrangements and combination of the several devices and parts, as well as in the details of the construction and in the general shapes and conformations of the several parts, without departing from the scope of the present invention as set forth in the foregoing specification. Hence, we do not limit our present invention to the exact arrangements and combinations of the several devices and parts as described in the said specification, nor do we confine ourselves to the exact details of the construction of the said parts, as illustrated in the accompanying drawings.

We claim:—

1. The herein-described tool, comprising a flat main body formed with longitudinally extending marginal walls and guide flanges extending laterally inward from said walls,

an inclined transverse member between the outer ends of said flanges, said member inclining toward said underlying main body to provide at the free end portion of the latter a wedge-shaped opening, a blade movably disposed intermediate said main body and its guide flanges and between said marginal walls, said blade being adapted to be outwardly projected through said wedge-shaped opening, and a clamping slide longitudinally movable in said main body to co-operate with said blade and said inclined transverse member for maintaining the blade fixed in desired longitudinal projection from said wedge-shaped opening.

2. The herein-described tool comprising a main body-member formed with longitudinally extending marginal walls, and guide-flanges extending laterally from said walls, said flanges being provided at one end with laterally extending and downwardly tapering members in abutting relation with each other, all arranged to provide with an end-portion of said main body a wedge-shaped opening, a blade movably disposed between said body member and said guide-flanges, said blade being adapted to be projected from said wedge-shaped opening, and a clamping slide co-operating with said blade and the said tapering members of the guide-flanges for maintaining the blade fixed in selected longitudinally projected position, and a pull-loop connected with one end of said clamping slide for moving the opposite end-portion of said slide into or out of retaining engagement with the tapering members of said guide-flanges.

In testimony that we claim the invention set forth above we have hereunto set our hands this 23rd day of December, 1924.

FREDERICK GOERTZ.
WILLIAM C. ROTHE.