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E. W. FRYE ETAL
CHISEL WITH GUIDE MEANS

3,097,429

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Fig. 1.

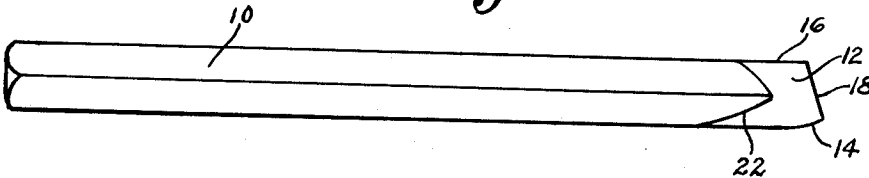


Fig. 2.

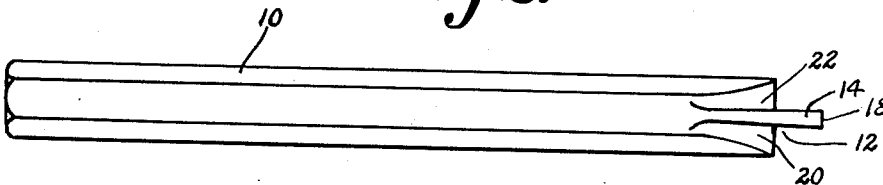


Fig. 3.

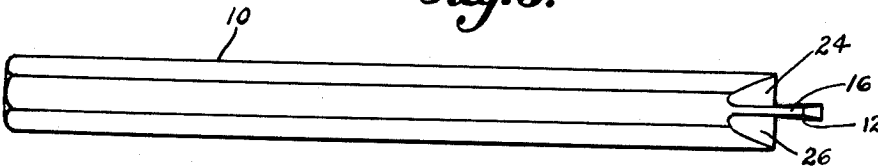


Fig. 4.

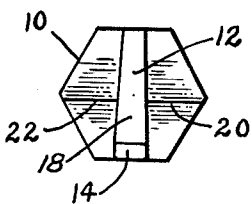
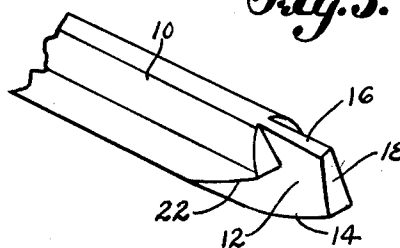


Fig. 5.



INVENTORS
Ellsworth W. Frye
Lloyd D. Tibbitts, Jr.
by Harold E. Cole
Attorney

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CHISEL WITH GUIDE MEANS

Ellsworth W. Frye, 112 Summer St., Abington, Mass., and
Lloyd D. Tibbetts, Sr., 217 Plymouth St., Holbrook,
Mass.

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2 Claims. (Cl. 30—168)

This invention relates to a chisel having bearing guide means.

One object of our invention is to provide a chisel that has bearing guide means to enable a workman to easily follow and cut an article along a predetermined line.

Another object is to provide a chisel as aforesaid to enable the workman to speed up the cutting operation by providing support for the chisel and maintaining its cutting edge at a predetermined depth by means of bearing guides.

A further object is to provide a chisel as aforesaid so constructed that the user has a clear vision of his work during the cutting operation.

A still further object is to provide such a chisel that forces the material cut away downwardly to avoid obstructing the line of vision of the user.

The foregoing and other objects which will appear as the nature of the invention is better understood, may be accomplished by a construction and arrangement such as is disclosed by the drawing. The nature of the invention is such as to render it susceptible to various changes and modifications, and therefore, we are not to be limited to the construction disclosed by the drawing, nor to the particular parts described in the specification; but are entitled to all such changes therefrom as fall within the scope of our claims.

In the drawing:

FIG. 1 is a side elevational view of our chisel.

FIG. 2 is a bottom plan view thereof.

FIG. 3 is a top plan view thereof.

FIG. 4 is a front elevational view thereof, enlarged.

FIG. 5 is a fragmentary, perspective view thereof.

As illustrated, our device may be made of any suitable metal. It has a shank or main body 10 with a cutter member 12 extending forwardly at one end extremity thereof. A lower edge 14 of said cutter member curves slightly upward near the front end extremity and this lower edge tapers in width from front to rear where it merges with the main portion of said body. Said cutter member 12 has an upper edge 16 that preferably tapers in width rearwardly from front to back. A front or cutting edge 18 tapers in width from bottom to top, and also extends diagonally rearward from bottom to top so that said cutting edge has a tip or piercing point at the bottom and forward extremity thereof. Said cutting edge is blunt and the widest part of the cutter member is at the lowest point of the cutting edge.

At opposite sides of said cutter member 12 we provide bearing guides 20 and 22 each of which abuts a said side. These bearing guides extend from the bottom of said main body upwardly and terminate at a point approximately halfway to the top of the latter, and preferably slightly below the longitudinal center line of said

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body as shown in said FIG. 4. They are preferably slightly curved so that they will slide smoothly along the sheet of metal or other material during the cutting operation. These bearing guides terminate at an appreciable distance from the cutter member front edge 18, and in use, they rest on said material being cut thereby steadying our device and keeping said front edge in cutting position at all times.

At opposite sides of said cutter member 12, we preferably provide cut-away or vision portions 24 and 26 which are respectively directly above said bearing guides 20 and 22. These cut-away portions extend diagonally and rearwardly upward, commencing at the forward point of said bearing guides 20 and 22, and joining the main portion of said body 10 at a point preferably rearwardly of said bearing guides. These cut-away portions enable the user of our device to clearly see said cutting edge 18 as it is driven forward thus enabling a workman to cut more accurately and with less effort.

In the event that our device is used to cut out a circular piece of material, such as the bottom of a metal barrel next to its rim, only one bearing guide need be provided so that the cutter member can cut flush against the rim of the barrel.

What we claim is:

1. A chisel comprising a main body, a cutter member extending from said body forwardly and having a cutting edge at its foremost part, and two bearing guides at opposite sides of, and abutting said cutter member, said guides extending from said body forwardly and upwardly and terminating at a point intermediate the top and bottom of said cutter member and spaced rearwardly from said cutting edge, said cutter member tapering in width from said cutting edge rearwardly, said cutting edge converging in width from the bottom thereof upwardly, said cutting edge extending from the bottom edge of said cutter member diagonally rearward and upward, said chisel having two cut-away portions extending from the top surface of said body downwardly and forwardly at opposite sides of said cutter member and terminating at said bearing guides.

2. A chisel comprising a main body, a cutter extending from said body forwardly and having a cutting edge at its foremost part, and two bearing guides at opposite sides of said cutter member extending from said body forwardly and upwardly and terminating at a point intermediate the top and bottom of said cutter member and spaced rearwardly from said cutting edge, said cutting edge converging in width from the bottom thereof upwardly and extending from the bottom edge diagonally rearwardly and upwardly.

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