

B. W. HOWE.

CHISEL.

APPLICATION FILED APR. 7, 1908.

903,093.

Patented Nov. 3, 1908.

Fig. 1.

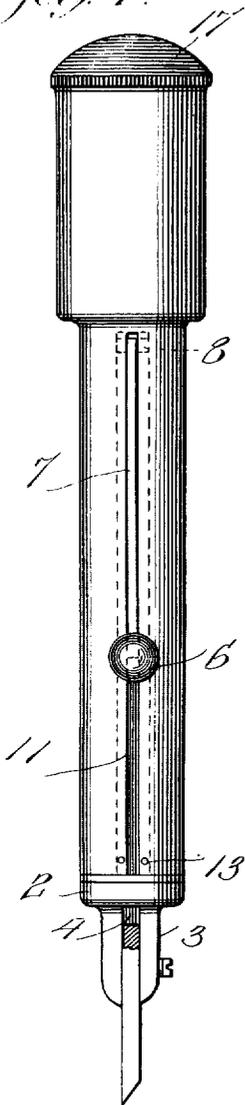


Fig. 2.

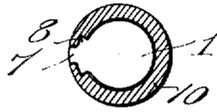


Fig. 3.

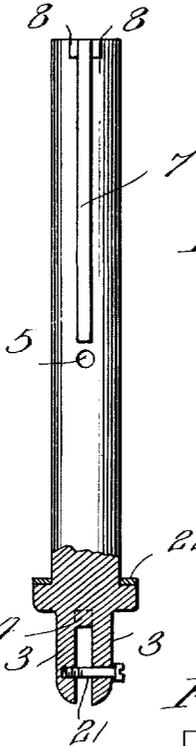


Fig. 4.

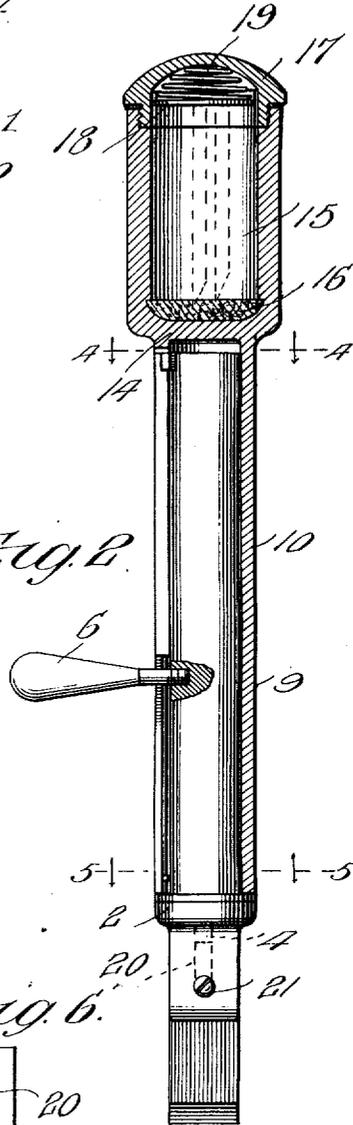


Fig. 5.

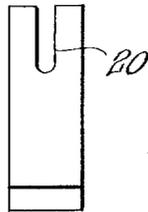
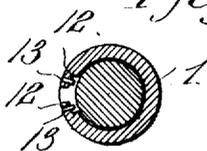


Fig. 6.



Witnesses

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BURTON W. HOWE, OF BELOIT, KANSAS.

CHISEL.

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Patented Nov. 3, 1908.

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To all whom it may concern:

Be it known that I, BURTON W. HOWE, a citizen of the United States, residing at Beloit, in the county of Mitchell and State of Kansas, have invented new and useful Improvements in Chisels, of which the following is a specification.

The invention relates to an improvement in tool holders and particularly to a holder adapted for use with cutting tools such as chisels.

The main object of the present invention is the provision of a tool holder constructed and arranged to receive a series of cutting points of different sizes and shapes and including a movable member in the use of which a blow may be imparted to the tool proper in the use of the latter.

The invention will be described in the following specification, reference being had particularly to the accompanying drawings, in which:—

Figure 1 is a view in elevation of a tool holder constructed in accordance with my invention. Fig. 2 is a similar view with the casing shown in vertical section. Fig. 3 is an elevation partly in section of the tool stock. Fig. 4 is a transverse section on the line 4—4 of Fig. 2. Fig. 5 is a transverse section on the line 5—5 of Fig. 2. Fig. 6 is an elevation of the chisel blade used with the holder.

Referring particularly to the accompanying drawings, my improved tool holder includes a stock 1 comprising preferably a rod-like body having adjacent its lower end a circumferentially disposed annular flange 2 projecting beyond the plane of the body. Below the flange 2 the body is divided to provide spaced parallel lips 3, centrally between which, at their upper ends, is arranged an abutment 4, for a purpose which will presently appear. At an appropriate point the body of the stock is formed with a threaded aperture 5 for the reception of a handle 6, and above and in alinement with said aperture the body is formed with a longitudinally extending rib 7. This rib terminates at its lower end above the aperture 5 and extends therefrom to the upper end of the body, being at the latter terminal provided with stops 8 arranged on each side of the rib, which stops are of less height than the height of the rib, as clearly shown in Fig. 2.

A casing 9 is arranged for coöperation with the stop, said casing comprising a tubu-

lar section 10 designed to slidably embrace the stock and formed with a longitudinally extending channel or slot 11 of a size to receive the rib 7 of the stock. The relatively inner surface of the tubular section 10 of the casing on each side the slot 11 is undercut at 12 for the reception of the stops 8 in the longitudinal movement of the casing, and said casing within said undercut portions 12 is provided with pins 13, adapted, as the casing is moved in one direction relative to the stock, to engage the stops 8 of the stock and prevent complete disconnection of the casing and stock. Above the tubular section 10 the casing is provided with a transverse plate or head 14, and beyond said head is circumferentially enlarged to provide a chamber 15 in which a plurality of tools for use with the holder may be stored. The bottom of the chamber, which is formed by the head 14, is preferably covered with a flexible disk 16 to prevent injury to the cutting points of the tools, and the extension forming the chamber 15 is threaded for the reception of a closure or cap 17, within which is arranged a pressure disk 18 connected to the cap by a coil spring 19, said disk and spring being arranged so as to exert pressure upon the blades or tools held within the chamber and prevent independent play or movement of said tools in the use of the holder.

The blades, designed for use with the holder, may be of any desired type, but are preferably formed in their upper portions with a longitudinally arranged slot 20 opening through the upper edge of the blade, so that said blade may be inserted between the lips 3 of the stock and the walls of the upper portion of the slot 20 snugly embrace the abutment 4. A set screw 21 is arranged to engage the lips 3 of the stock, passing through the slot 20 of the blade when the latter is in place, whereby proper securing of said screw will maintain a rigid and effective connection between the blade and stop.

After assembling the parts as described the handle 6 is secured in the aperture 5, said handle projecting through the slot 11 in the tubular section of the casing to provide a handhold for the operator in the use of the implement.

In operation the desired force is imparted to the tool by elevating and lowering the casing 9, the lower edge of the tubular portion 10 of said casing engaging the flange 2 of the stock to impart the desired pressure to

the blade. Preferably a washer 22 is disposed upon the upper surface of the flange 2 to avoid undue wear of the parts and dispense with unnecessary noise in operation.

5 The enlarged portion of the casing forming the chamber 15 provides a convenient hand-
hold for the operator in reciprocating the casing, it being understood, of course, that
10 such operation maintained in proper position on the work by obvious use of the handle 6.

The tool described provides a simple and effective device for the use of cutting tools
15 of any usual type, it being understood that the chamber or magazine 15 is primarily intended to contain a series of desirable tools of different types and sizes and each constructed for operation with the stock.

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

1. A tool holder comprising a stock formed with a longitudinally extending rib and with a threaded aperture arranged below and in
25 alinement with the rib, a casing arranged for reciprocatory movement relative to the stop and having a longitudinally extending slot to receive the rib on the stock, a handle pass-

ing through said slot and engaging the aperture in the stock, stop blocks carried by the
30 stock on each side of the rib, and pins carried by the casing to engage said stop blocks and limit the relatively outward movement of the casing.

2. A tool holder comprising a stock formed
35 with a longitudinally extending rib and with a threaded aperture arranged below and in alinement with the rib, a casing arranged for reciprocatory movement relative to the stop and having a longitudinally extending
40 slot to receive the rib on the stock, a handle passing through said slot and engaging the aperture in the stock, stop blocks carried by the stock and arranged on each side of the
45 rib, said blocks being of less height than the rib, the inner surface of the casing on opposite sides of the slot being undercut to receive the stop blocks, and pins arranged in
50 said undercut portions to engage the stop blocks.

In testimony whereof I affix my signature in presence of two witnesses.

BURTON W. HOWE.

Witnesses:

GEO. DEAN,
HENRY AFFLELER.