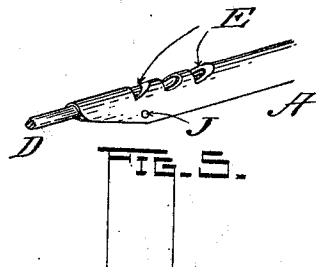
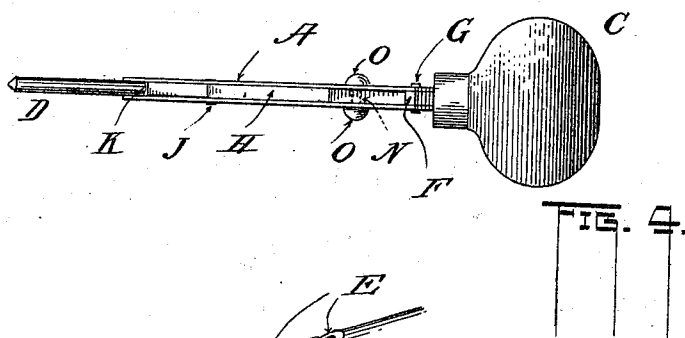
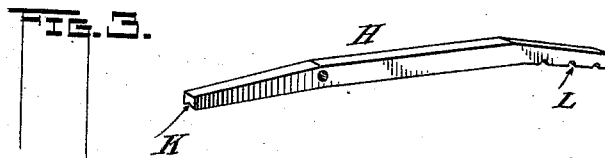
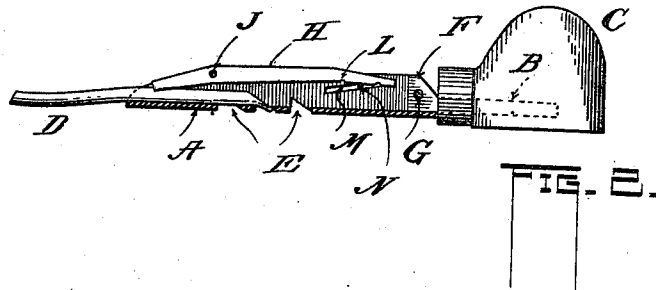
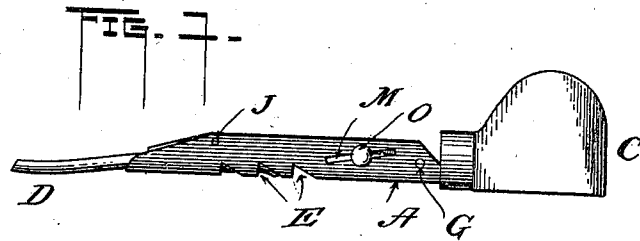


996,195.

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TOOL HOLDER.
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Patented June 27, 1911.



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UNITED STATES PATENT OFFICE.

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TOOL-HOLDER.

996,195.

Specification of Letters Patent. Patented June 27, 1911.

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To all whom it may concern:

Be it known that I, FREDERICK J. BAHNI, citizen of the United States, residing at Peoria, in the county of Peoria and State of Illinois, have invented certain new and useful Improvements in Tool-Holders; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to a tool holder being particularly adapted for use as a holder for that class of tools used by engravers known as "gravers".

In an engraving establishment it is customary for each workman to have spread before him upon his bench a large number of gravers each having a different form of cutting point and by reason of the number necessary it is very difficult to at once find the tool of the desired form for a given piece of work and as each graver is usually provided with a handle it is evident that considerable bench surface is covered and much inconvenience experienced to say nothing of the loss of time in finding a proper tool. Again, gravers are necessarily of all lengths some being new and of some length as compared with those that have been in use for a long time and have been ground and reground and become short. Evidently, work of the very best cannot be executed with tools of various lengths and one of the purposes of the present invention is to provide a holder for a graver which will have provision for permitting the adjustment of said graver for a desired length so the complete tool will have a fixed length at all times; the workman therefore being in a position to do better work when the length of his tools do not vary.

The object therefore is to provide a holder for tools which will have provision for the adjustment of the tool therein and by which said tool can be firmly held in any desired adjustment each tool being readily inserted and withdrawn, which operation requires but a moment's time.

In the appended drawing: Figure 1 is a side elevation of my improved tool. Fig. 2 is a longitudinal sectional elevation of the same. Fig. 3 is a perspective view of a lever drawn to a large scale. Fig. 4 is a plan of the under side of the tool. Fig. 5 is a per-

spective view of a portion of the holder showing a series of notches therein to receive the graver.

The holder consists preferably of a sheet metal body A bent along its length into the form of a U, which is provided at one of its ends with an extension or shank B to receive the handle C, its opposite end being beveled at an angle the point resulting from such bevel being at the bend of the body as shown. The graver or other tool is indicated at D and lies within the body or holder. The rounded part of the body, which is its under side, is provided with a series of notches E substantially of the form indicated. The rear end or shank of the tool is formed at an angle and flattened on its rear surface so as to adapt it to enter any one of the notches and rest upon the angle or beveled face of the metal, its position being shown in Figs. 1 and 2. A block F is positioned between the sides of the member A at the rear and a rivet G serves to secure the sides and the block together firmly as a single member though it is to be understood that this may not be used although such a member if employed may be extended into the handle so as to aid in securing the holder therein. Within the body is a lever H having a long and short arm its fulcrum being nearest its forward end and consisting of a pin J extending through the lever and through the sides of the body. The forward or short end of the lever is provided with a notch or groove K to rest upon the tool and thereby aid in holding the same rigid. The extremity of the lever is removed some little distance from the end of the body A as shown so that there will be no tendency of a vertical rocking movement of the tool. When the lever bears on the tool rearward of the end of the body as shown the tool is more firmly held since the point of pressure of the lever thereupon is between the extremities of the surface on which the said tool rests. The rear under edge of the lever is provided with a series of notches L which lie adjacent to an inclined slot M in each wall of the body; the forward end of the slot lying nearest the bottom of said body as shown in the figures.

Extending through the body and slidable within the slots M is a pin N having at each end a button O as plainly shown which lies each side of the body A. It will be noted

that if the pin N were to be moved toward the lower end of the slot it would be carried away from the lever and permit the same to lower, the short end of the latter thus freeing the tool D so that it can be withdrawn or adjusted. When the tool is placed in position and the pin is drawn rearwardly or toward the upper end of the slot it engages the lever and raises the same and depresses the short end and firmly clamps the tool. The notches L described are provided for assisting in holding the pin in position so that it will have no tendency to slip away and release the tool but other means may be provided for accomplishing the purpose, if indeed any means is found necessary. As constructed, the long end of the lever will spring sufficiently to permit the pin N to enter any one of the notches; the several notches being provided in order that tools of various diameters can be accommodated and also that a tool can be clamped more or less firmly.

As has already been stated herein the work bench is usually covered with gravers of various forms and it is my purpose to merely have one holder for the entire series of gravers and place all of the latter in an upright position in a mass in any suitable holding block provided with sockets to receive them so that the workman can instantly pick out the tool desired and then insert it in the holder. By this means no time is wasted in looking through all the tools lying at random to find the one desired. And an important point is that although all the gravers may be of different lengths yet the series of notches E in the holder provide for the proper adjustment in lengths so that the tool in its complete form will always be the same length since a workman who has become accustomed to using a tool of a certain length can do better work by having all his tools of that length than if compelled to use tools which vary constantly in this respect.

The graver D or other tool that may be used in the holder as already stated is formed at its inner end with a bent extremity the rear face of which is flattened at an angle to its axis so as to lie firmly and flatly against the edge of the metal created by the notches E and the tool having this form is included in the invention.

The body or holder A in being made of sheet metal can be easily and readily struck from dies the notches E, which are holes in the sheet metal, being punched at the same operation. It is possible, therefore, to produce a device of a much lower cost than one made of solid metal that requires to be machined in order to adapt it for receiving its tool. When bent to form, the resulting notches lie in the positions shown and the beveled rear end of the tool lies flat against the edge of the metal as bent up.

The invention also seeks to include any such changes as may fairly fall within the meaning and intent of the following claims.

Having thus described my invention, I claim:—

1. A tool holder comprising a body for receiving and carrying a tool, a lever pivoted thereon, one end adapted to clamp the tool, a member carried on the body and slidable therein and adapted to slidably engage the opposite end of the lever said lever having a serrated surface to receive said slidable member.

2. A tool holder comprising a body for carrying a tool and provided with a handle, a lever pivotally carried by said body and adapted at one end to clamp the tool upon the body and a member slidably carried in and by the body and having slidable engagement with the lever.

3. In a tool holder, a body provided with a handle and adapted to receive a tool, a lever pivoted in the carrier and having a long and a short arm, the short arm adapted to clamp upon the tool and a member slidably carried in the body and having sliding engagement with the long arm of said lever.

4. A tool holder comprising a body adapted for receiving a tool, a lever pivoted in said carrier, one end adapted to clamp the tool, a member slidably carried on the body the said body having a slot to carry said member, the latter adapted to engage the opposite end of the lever, said opposite end having a serrated edge to engage said slidable member.

5. A tool holder comprising a U-shaped body portion or carrier to receive a tool, a lever pivoted therein and adapted at one end to engage the tool, there being a slot in the body in the region of the opposite end of the lever, and a member slidably in said slot and adapted to frictionally engage the said lever, said slot being inclined at an angle to the lever.

6. A tool holder comprising a body adapted to receive a tool, a lever to hold the tool in clamping position and pivoted in said carrier one end of which engages the tool, said lever having a notch, and a member carried by the body having sliding engagement with the opposite end of the lever and adapted to engage the notch.

7. In a tool holder, a body to receive a tool, the same having provision therein to receive one end of the tool for taking the longitudinal thrust thereof, a lever to hold the tool in clamping position, the same being pivoted on the body, one end of the lever adapted to clamp upon and hold the tool against the body, and means slidably carried by the body and adapted to engage the opposite end of the lever.

8. In a tool holder, a body portion or carrier to receive a tool and provided with a

series of notches one of which is adapted to receive the inner end of the tool, a lever to hold the tool in clamping position and pivoted in said carrier one end of said lever adapted to clamp the tool against the carrier and means to engage the opposite end of the lever.

9. In a device of the character described, the combination of a tool body open along its upper side and provided with a notch in its under side, a lever pivoted in the opening and extending longitudinally of said body, there being a slot in the side of the body beneath one end of said lever the same extending at an angle relative to the longitudinal axis of the body, a member slidable in the slot and adapted to engage one end of the lever, and a tool engaged by the opposite end of the lever and clamped thereby upon the body, the inner end of the tool adapted to seat in the notch in the said underside of the body.

10. In a tool holder the combination of a body portion or carrier to receive a tool and having a series of notches therein to receive the rear end of the tool, the latter being formed to enter one of the said notches, a lever to hold the tool in clamping position and pivoted in the body and having a short and a long arm, the short arm adapted to engage and clamp the tool and provided with a longitudinal groove to receive the tool, and means to engage the long end of the lever for the purposes set forth.

11. In a tool holder the combination of a carrier having a handle and provided with a plurality of notches any one of which is adapted to receive the inner end of the tool, a lever pivoted in the carrier and having a short and a long arm, the short arm adapted to clamp the tool, there being a slot in the carrier in the vicinity of the long arm of the lever and a member slidable in the slot and adapted to engage the lever, said slot being

inclined at an angle to the surface of the lever with which the member engages.

12. In a tool holder the combination of a carrier to hold a tool and provided with a handle and also provided with a plurality of notches one of which is adapted for receiving the inner end of the tool a lever pivoted in the carrier and having a short and long arm, the short arm adapted to clamp the tool, there being a slot in the carrier in the vicinity of the long arm of the lever, and a member slidable in the slot and adapted to engage the lever, said slot being inclined at an angle to the surface of the lever with which the member engages, there being a notch in said lever with which the member is adapted to engage.

13. In a device of the class described, the combination with a hollow sheet metal body open along one of its longest sides, a tool to lie therein and having a lateral extension at its inner rear end, said body having a notch in and extending through its wall for receiving said extension, the latter adapted to extend into said notch and bear at its rear side against the edge of said wall, and a member to engage the tool and hold its extension in said notch.

14. In a tool holder, a body portion or carrier to hold a tool and provided with a notch to receive the inner end of the tool, a lever pivoted on the carrier and adapted to hold the tool in place one end of said lever adapted to clamp the tool, and means in contact with and in control of the lever and movable relative thereto at an angle to place a clamping pressure thereon.

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

FREDERICK J. BAHNI.

Witnesses:

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A. KEITHLEY.