

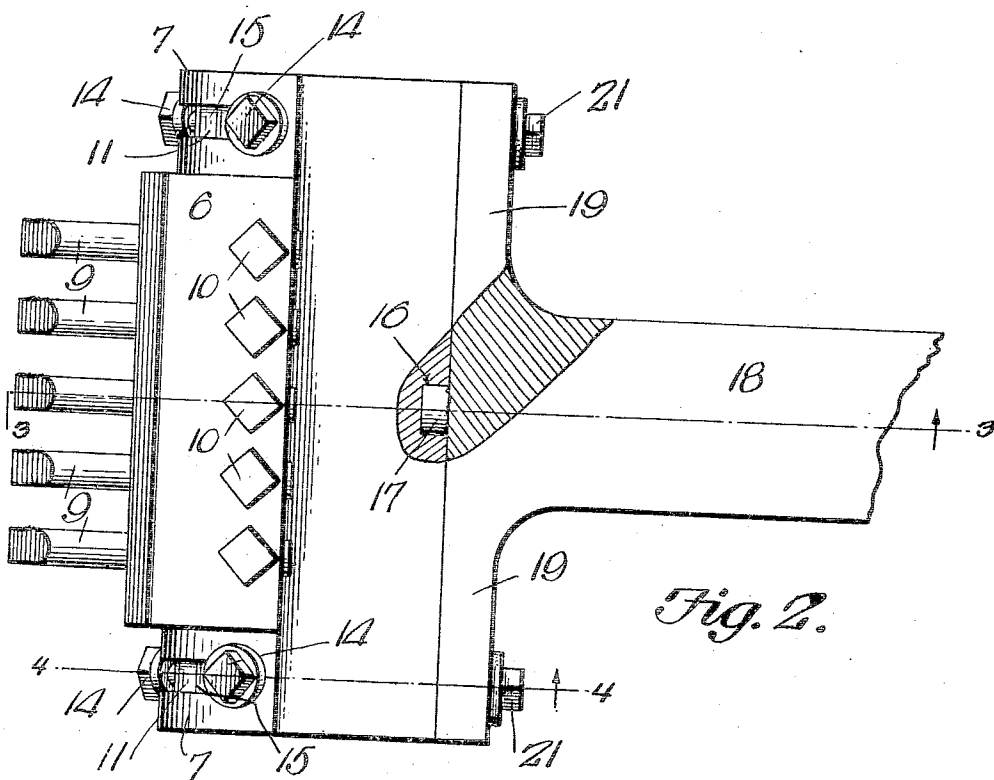
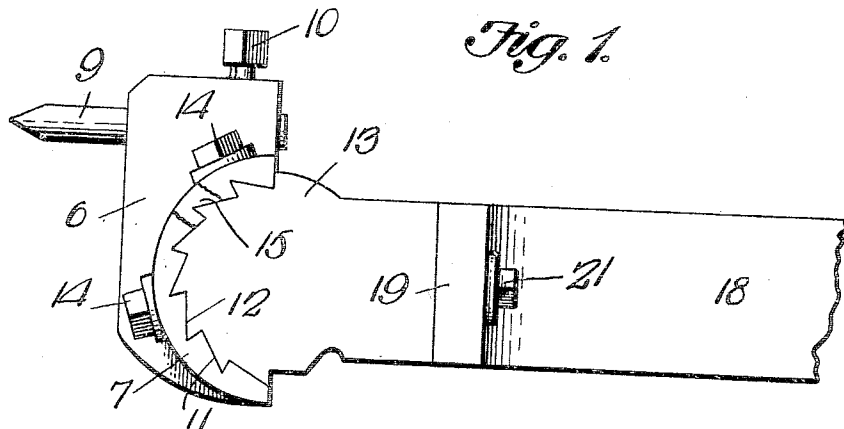
TOOL HOLDER.

APPLICATION FILED OCT. 15, 1909.

953,580.

Patented Mar. 29, 1910.

2 SHEETS—SHEET 1.



Witnesses

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2 SHEETS—SHEET 2.

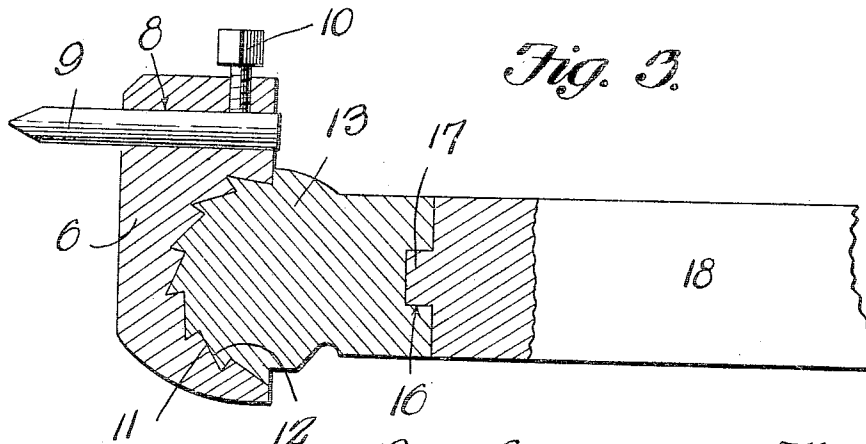


Fig. 3.

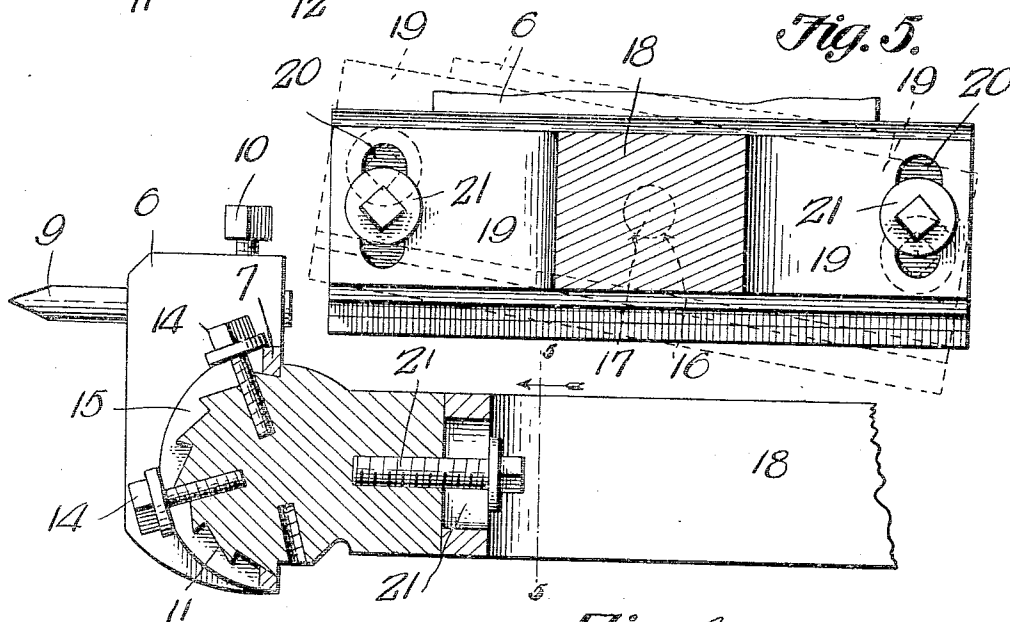


Fig. 5.

Fig. 4.

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UNITED STATES PATENT OFFICE.

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TOOL-HOLDER.

953,580.

Specification of Letters Patent.

Patented Mar. 29, 1910.

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To all whom it may concern:

Be it known that I, WILLIAM E. BASSETT, a citizen of the United States, residing at La Moine, in the county of Shasta and State of California, have invented new and useful Improvements in Tool-Holders, of which the following is a specification.

This invention relates to an improved gang tool holder for holding a set or gang of tools to be used in a planer or turning mill for the purpose of machining metals.

The invention has for its object to provide a gang tool holder of simple and improved construction whereby the tools may be readily set or adjusted so as to engage the object that is to be turned at various angles.

A further object of the invention is to provide a gang tool holder in which the set or gang of tools may be adjusted at various angles to the axis of rotation of the object that is being operated upon.

Still further objects of the invention are to simplify and improve the general construction and operation of this class of devices.

With these and other ends in view which will readily appear as the nature of the invention is better understood the same consists in the improved construction and novel arrangement and combination of parts which will be hereinafter fully described and particularly pointed out in the claims.

In the accompanying drawings has been illustrated a simple and preferred form of the invention; it being however understood that no limitation is necessarily made to the precise structural details therein exhibited, but that changes, alterations and modifications within the scope of the invention may be resorted to when desired.

In the drawings: Figure 1 is a side elevation of a device constructed in accordance with the invention. Fig. 2 is a plan view of the same. Fig. 3 is a longitudinal sectional view taken on the plane indicated by the line 3—3 in Fig. 2. Fig. 4 is a longitudinal sectional view taken on the plane indicated by the line 4—4 in Fig. 2. Fig. 5 is a transverse sectional view taken on the plane indicated by the line 5—5 in Fig. 4.

Corresponding parts in the several figures are denoted by like characters of reference.

The tool carrying head 6 consists of a block having laterally extending flanges 7 and provided with a row of longitudinal apertures 8 for the reception of the tools 9

which are retained in position by means of set screws 10. The back of the head block 6 including the flanges 7 is provided with a recess of approximately semi-circular cross section, said recess being equipped with series of ratchet teeth 11 adapted to engage corresponding ratchet teeth 12 upon the face of a holding block 13 which latter when adjusted in the recess of the head block may be connected with the latter by means of cap screws 14 engaging the holding block and extending through slots 15 in the flanges 7. When the parts are thus assembled it is obvious that they will be held very securely owing to the presence of the inter-engaging teeth or ratchets which relieve the cap screws of any direct strain; it will likewise be seen that by loosening the cap screws the tool carrying head block is capable of adjustment about the axis of the holding block engaging the arcuate recess in the head block. The holding block as well as the head block may be of any desired length to enable the head block to accommodate any desired number of tools.

The rear end of the holding block is provided with a recess 16 about midway between the ends thereof, said recess being for the reception of a pivot 17 extending from the tool shank 18 whereby the tool holder is mounted for operation in the customary manner. Said tool shank is provided with laterally extending arms 19 having arcuate slots 20 which are concentric with the axis of the pivot 17; said slots serve for the passage of cap screws 21 that engage the holding block 13 for the purpose of holding the latter in adjusted position with reference to the handle; it being obvious that by loosening the cap screws 21, the said holding block may be turned to various positions as indicated in dotted lines in Fig. 5, of the drawings.

From the foregoing description taken in connection with the drawings hereto annexed the operation and advantages of this invention will be readily understood by those skilled in the art to which it appertains. By turning the holding block upon the axis of the pivot 17 the row of tools may be adjusted at various angles with reference to the axis of rotation of the work and by adjustment of the head block upon the holding block the tools may be presented at various angles with reference to the face of the work, it being understood that the tool shank 18

is to be supported upon a tool holder of any well known construction or held in the usual manner in a level or shaper. Cutting tools of any well known description may also be
5 used.

Having thus described the invention, what is claimed is—

1. A tool carrying head having a recess of approximately semi-circular cross section and equipped with ratchet teeth, a holding
10 block having corresponding ratchet teeth engaging said recess, and means for adjustably connecting the head block with the holding block.

15 2. A tool carrying head having laterally extending slotted flanges, and provided with a recess of approximately semi-circular cross section equipped with ratchet teeth, a holding block adjustably engaging the recess and
20 having corresponding ratchet teeth, and cap screws extending through the slotted flanges and engaging the holding block.

3. A holding block, a tool carrying head adjustable about the axis of the holding
25 block, and a shank adjustably connected with the holding block about an axis approxi-

mately at right angles to the axis of adjustment of the tool carrying head with reference to the holding block.

4. In a device of the class described, a
30 tool carrying head having an approximately semi-circular recess provided with ratchet teeth, a holding block having a head provided with ratchet teeth and engaging the
35 recess of the tool carrying head, said holding block being provided at its rear end with a recess, means for adjustably connecting the tool carrying head with the holding block, a shank having a pivot engaging the recess
40 at the rear end of the holding block, said handle being provided with laterally extending arms having arcuate slots concentric with the axis of the pivot, and fastening members extending through said slots into the hold-
45 ing block.

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

WILLIAM E. BASSETT.

Witnesses:

J. W. HINMAN,
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