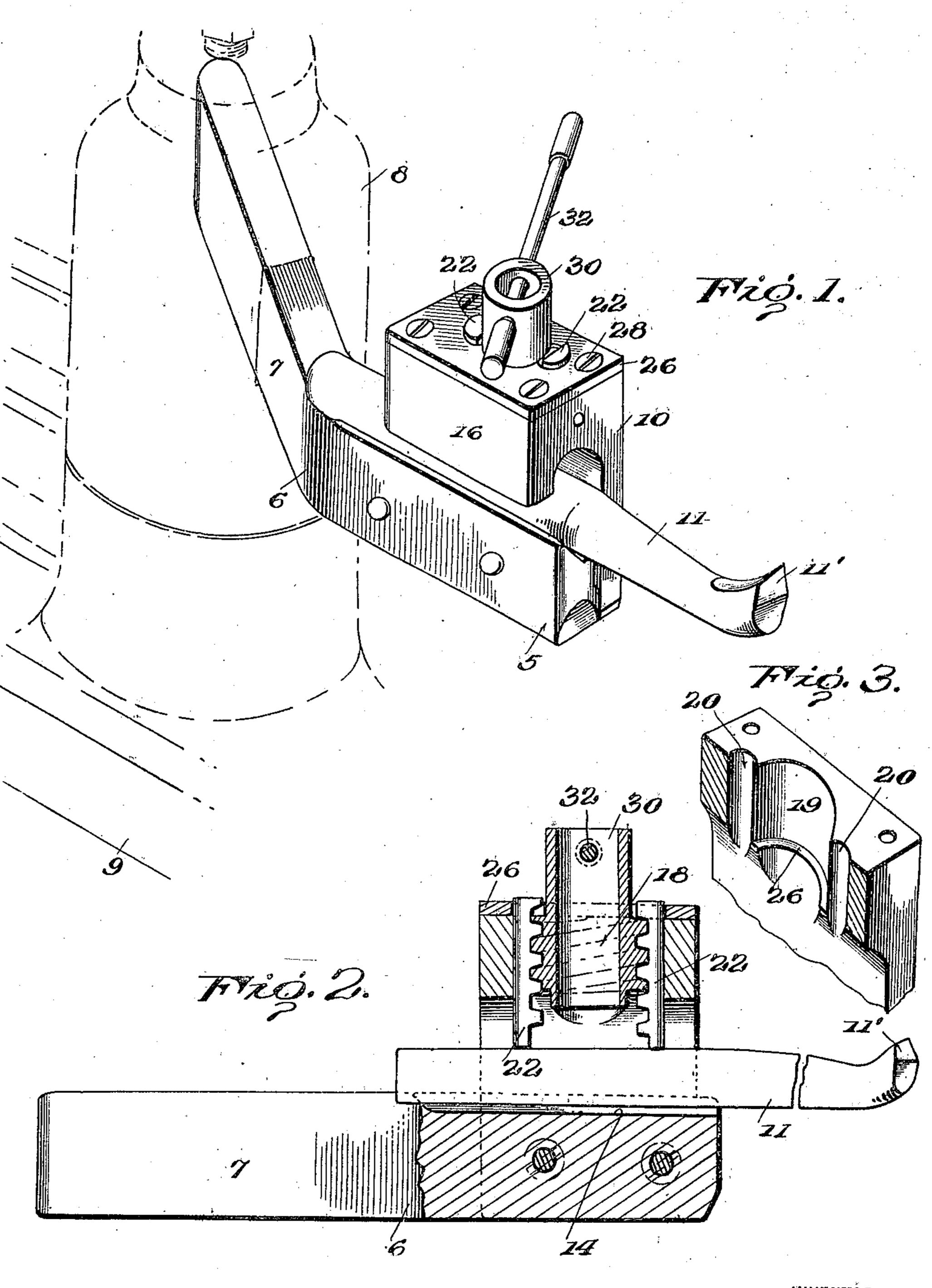
A. A. GASSER. Tool Holder. Filed Mar. 10, 1922.



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UNITED STATES PATENT OFFICE.

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TOOL HOLDER.

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To all whom it may concern:

ers, of which the following is a specifica- tion of the bar. tion.

to provide a tool holder having novel means with the commutator and other work.

highly simplified construction, durable in

20 use and cheap to manufacture.

Other objects and advantages of the in-

of the following description.

25 part of this application and in which like self locking. numerals are employed to designate like parts throughout the same,

Figure 1 is a perspective of the improved

tool holder.

through the same.

Figure 3 is a fragmentary view illustrating the means for holding the adjusting

worm against endwise movement.

In the drawing wherein for the purpose of illustration is shown a preferred embodiment of the invention the numeral 5 designates a bar bent intermediate its ends as indicated at 6 to provide an attaching por-40 tion 7 adapted to be connected with the post 8 of a lathe 9 of any desired type.

In carrying out the invention, the forand positively hold the cutter 11 in posi- proper direction. tion so that the forward end 11' of the same The invention is especially adapted for such as a commutator. By reason of the elongated formation of the cutter 11 the 50 forward end 11' of the same may be positioned within the commutator for accurately making the desired cut. The cutting lip 11' at the forward end of the cutter is provided by extending the forward por-55 tion of the cutter angularly and beveling the

end to a point as illustrated in Figure 1. Be it known that I, Anton A. Gasser, It will be seen with reference to Figure 2 a citizen of the United States, residing at that the upper longitudinal edge portion of Youngstown, in the county of Mahoning the bar 5 is provided with a groove 14 5 and State of Ohio, have invented certain which is substantially V-shaped in cross sec- 60 new and useful Improvements in Tool Hold-tion for providing a seat for the rear por-

The head 10 is as illustrated in Figure 1 This invention relates to tool holders es- provided with an overhanging portion 16 10 pecially adapted for use on lathes. which extends over the tool 11 and which 65 An important object of this invention is is provided with a centrally arranged opening through which a tubular worm 18 exwhereby a cutter may be securely and posi-tends. The opening for the reception of tively held in position thereby for produc- the worm is designated by the numeral 19 15 a smooth and accurate cut in connection and the walls of the opening are provided 70 with oppositely arranged recesses 20 for the A further object is to provide a tool reception of racks 22 of which there are 2. holder of the class described which is of With reference to Figure 2 it will be seen that when the worm is rotated in the proper direction, the racks 22 will be moved into 75 engagement with the tool and as is well vention will be apparent during the course known a longitudinal strain on the racks 22 will not cause the worm to rotate. It is In the accompanying drawing forming a thus seen that the tool holding means are

The worm 18 is held against endwise movement in one direction by a pair of oppositely arranged arcuate shoulders 26 formed at opposite sides of the opening 19. Figure 2 is a longitudinal sectional view The worm is held against endwise move- 85 ment in the other direction by the cover plate 27 which may be secured to the overhanging portion of the head 10 by means of fastening devices 28. The worm 18 is provided with a rearwardly extending tubu- 90 lar portion 30 through which a handle 32

is extended.

In positioning the tool the same is placed upon the seat formed by the V-shaped groove and the racks 22 are now advanced 95 for securely and positively holding the tool in position. When desired, the racks may ward portion of the bar 5 is provided with be released from locking engagement with a head 10 having means whereby to securely the tool by a rotation of the worm 18 in the

will be held in engagement with the work use in connection with commutator and other work and by reason of the formation of the tool it may be readily inserted into the commutator for making an annular or other 105

desired cut.

I claim:— 1. A tool holder comprising a bar, a head carried thereby and having an overhanging portion provided with an opening, the wall 110

of which is provided with oppositely ar- a tool supporting seat extending longitudiranged recesses, a worm arranged in said nally thereof, a head connected to one termiopening, and racks arranged in said recesses nal portion of said bar and having an overand engaged by said worm, the worm con-5 stituting the sole means for actuating the a worm arranged in said opening, said overracks and for locking the same in engagement with a tool.

carried thereby and having an overhanging 10 portion provided with an opening, the wall hanging portion and engaged by said worm, of which is provided with oppositely ar- a cover plate connected to said overhanging ranged recesses, a worm arranged in said portion and limiting the endwise movement opening, and racks arranged in said recesses of the worm in the other direction, a tool 15 stituting the sole means for actuating the racks, said worm constituting the sole means racks and for locking the same in engage- for actuating said racks and for locking the ment with a tool, one end of the wall of said same in engagement with said tool, the rear opening being formed with oppositely ar- end of said worm being extended exteriorly ranged arcuate inwardly extending shoul-20 ders limiting the endwise movement of the worm.

3. The construction set forth in claim 2, and a cover plate secured to said overhanging portion and limiting the endwise move-25 ment of the worm in the other direction.

4. A tool holder comprising a bar having

hanging portion provided with an opening, 30 hanging portion being provided with a pair of arcuate inwardly extending shoulders 2. A tool holder comprising a bar, a head limiting the endwise movement of said worm in one direction, racks carried by said over- 35 and engaged by said worm, the worm con- mounted on said seat and engaged by said 40 of the head, and a handle connected to said 45 rearwardly extending portion of the worm.

In testimony whereof, I have affixed my signature in the presence of two witnesses. ANTON A. GASSER.

Witnesses: W. G. Dornan, ALFREDA PIFER.