

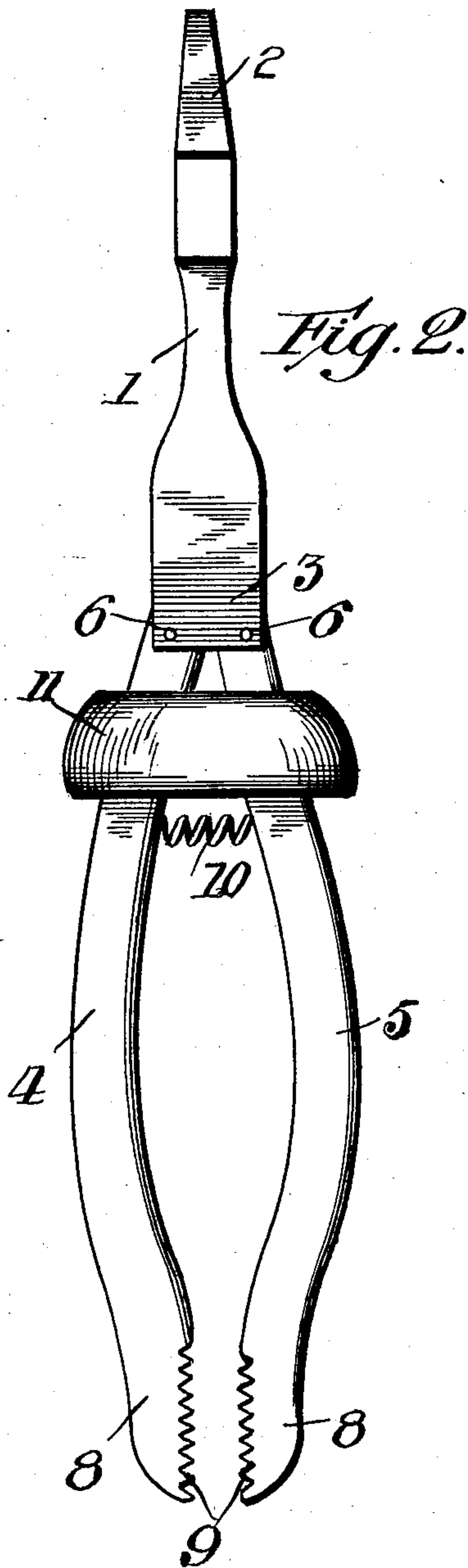
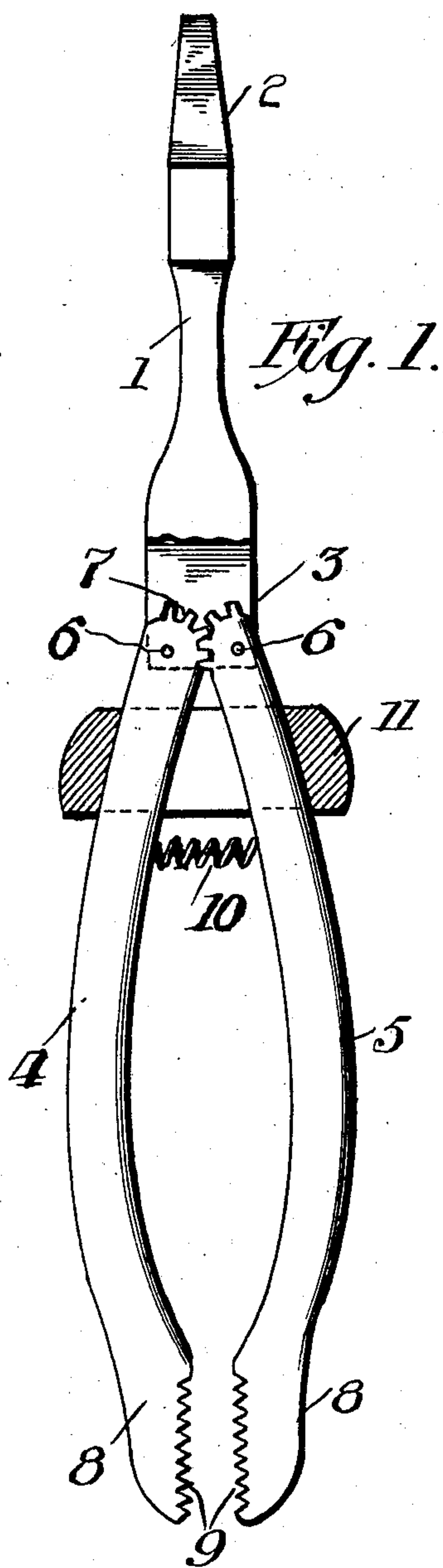
No. 739,252.

PATENTED SEPT. 15, 1903.

H. R. ASHBY.  
WRENCH.

APPLICATION FILED MAY 13, 1903.

NO MODEL.



Witnesses,  
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# UNITED STATES PATENT OFFICE.

HUGH R. ASHBY, OF MUSTARD, PENNSYLVANIA.

## WRENCH.

SPECIFICATION forming part of Letters Patent No. 739,252, dated September 15, 1903.

Application filed May 13, 1903. Serial No. 156,939. (No model.)

*To all whom it may concern:*

Be it known that I, HUGH R. ASHBY, a citizen of the United States of America, residing at Mustard, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Wrenches, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in wrenches or bits, and has for its object to provide a wrench which may be easily and quickly operated, simple in construction, and comparatively inexpensive to manufacture.

Briefly described, my invention comprises a shank upon which are pivoted two arms, said arms being roughened or having teeth formed in their outer ends. I also provide a ferrule or band, which engages over said arms and locks the same upon the object or nut which is to be rotated.

My improved wrench or bit is applicable to braces or spanner-wrenches when it is desired to use the same.

In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, and wherein like numerals of reference indicate like parts throughout both views, in which—

Figure 1 is a longitudinal sectional view of my improved wrench or bit, the shank of which is shown in side elevation. Fig. 2 is a side elevation of my improved wrench.

To put my invention into practice, I provide a shank 1, having its upper end tapered, as indicated at 2, the lower end of said shank being enlarged and bifurcated, as indicated at 3, said bifurcated portion forming a seat or recess for the reception of the arms 4 5, said arms being pivoted, as indicated at 6. These arms carry intermeshing teeth 7 upon their pivoted ends, while upon the lower ends of said arms are the gripping-jaws 8, said jaws having formed thereon the teeth 9. In-

terposed between said jaws I provide a spring 10, which holds the arms normally in the open position, and to close the said arms or jaws I provide a ferrule or band 11, said band having its interior periphery conforming to such an angle as will correspond to the exterior sides of the arms or jaws 4 5, and when it is desired to close said arms the ferrule 11 is moved forwardly until the jaws 8 have engaged the object firmly. To provide a uniform movement of the arms 4 5, the intermeshing teeth 7, formed on the pivoted end of the arms 4 5, are employed, and it can be readily seen whereby when one arm is moved a corresponding or like movement takes place with the other arm.

While I have herein shown and described my improved wrench or bit as applicable to a brace or a spanner-wrench, it will also be noted that I may employ the same as a hand-vise, a suitable handle being secured to the tapered end 2 of the shank 1. It will also be noted that various changes may be made in the details of construction without departing from the general spirit of my invention.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

A wrench or bit comprising a shank, said shank having its upper end tapered, the lower end of said shank being bifurcated and having pivoted therein arms or jaws, said jaws carrying on their pivoted ends teeth, said teeth intermeshing with each other, a spring interposed between said arms to normally hold the same in the extended position, and a ferrule or band for closing the said arms or jaws, substantially as described.

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

HUGH R. ASHBY.

Witnesses:

R. R. ELLIS,  
WM. H. WOODS.