

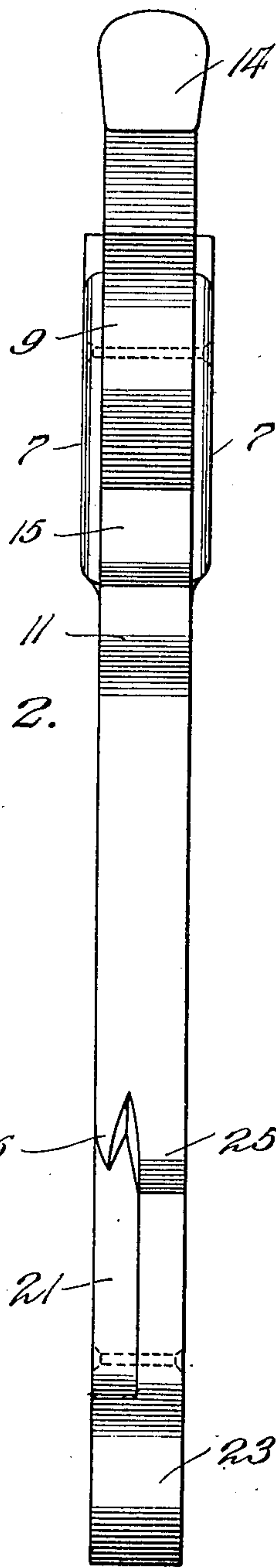
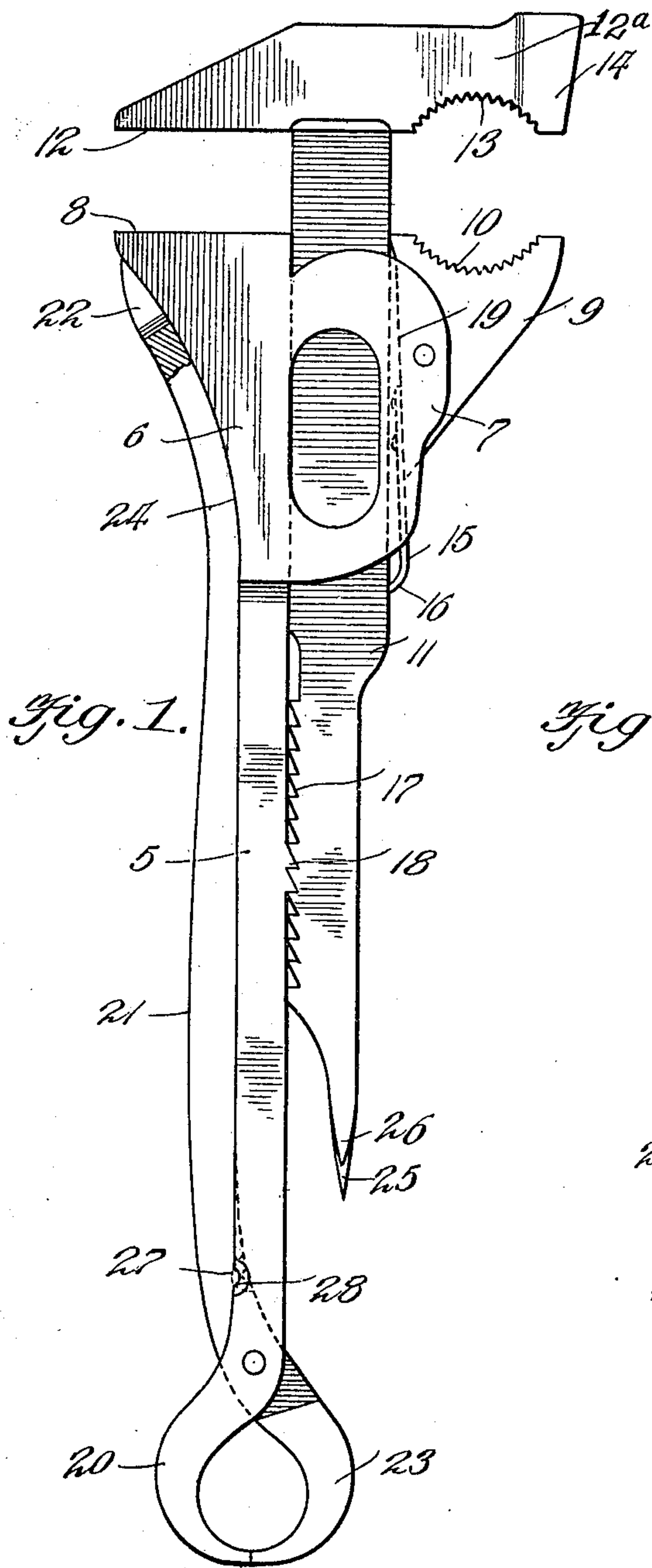
G. L. HINDMAN.

WRENCH.

APPLICATION FILED JULY 24, 1908.

920,059.

Patented Apr. 27, 1909.



Witnesses

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# UNITED STATES PATENT OFFICE.

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## WRENCH.

No. 920,059.

Specification of Letters Patent.

Patented April 27, 1909.

Application filed July 24, 1908. Serial No. 445,264.

*To all whom it may concern:*

Be it known that I, GEORGE L. HINDMAN, a citizen of the United States, residing at Worthington, in the county of Armstrong and State of Pennsylvania, have invented new and useful Improvements in Wrenches, of which the following is a specification.

This invention relates to the class of tools, and more particularly to wrenches broadly, and has for an object to provide a wrench which will embody parts adapted for various uses.

A further object of this invention is to provide a wrench which may be used as a pipe wrench or as a wrench adapted for use in the manipulation of flat faced nuts, and to so construct various parts of the wrench whereby the jaws can be quickly and easily adjusted.

With these objects in view, as will appear as the description proceeds, the invention comprises the various novel features of construction and arrangement of parts which will be more fully described hereinafter and set forth with particularity in the claims appended hereto.

In the drawings, which illustrate the invention and in which like numerals of reference indicate similar parts in the several views: Figure 1 is a plan view of the present invention. Fig. 2 is an edge view.

Referring now more particularly to the drawings there is shown a shank 5 having an enlarged portion 6 at the upper end thereof which is provided with vertically disposed parallel spaced ears 7. The portion 6 is also provided with a lateral offset portion or jaw 8, and the ears have pivotally mounted therebetween a jaw 9 having a serrated concavity 10, as shown. The jaw 9 is disposed with its inner side in spaced relation to the inner face of the portion 6, and slidably mounted between the ears 7 and between the jaws 8 and 9 is a shank 11 provided at the upper end thereof, with a jaw 12 for cooperation with the jaw 8, and at the opposite side, the shank 11 is extended to form a jaw 12<sup>a</sup> which is provided with a serrated concavity 13. The shank 11 is also provided with a hammer head 14.

The jaw 9 is provided upon the inner side thereof with a flat leaf spring 15 provided with an inwardly directed curved lower end 16 for frictionally engaging the outer face of the shank 11. Upon the inner face, the

shank 11 is provided with a plurality of transversely disposed ratchet teeth 17 for coengagement with a plurality of similar teeth 18 formed upon the shank 5. It may be stated that the inner face of the jaw 9 is inclined as indicated at 19 whereby the shank 11 may be moved to disengage the teeth 17 thereof from the teeth 18 of the shank 5.

The lower end of the shank 5 is curved as indicated at 20, and above the curved portion the shank has pivoted thereto a member 21 having a bifurcated upper end 22 whereby the member 21 may be effectively used as a tack or nail puller, and at the lower end, the member 21 is curved as indicated at 23 but in an opposite direction from the curved portion 20 of the shank 5, the portions 20 and 23 respectively thus serving as a pair of tongs. The upper end of the member 21 is preferably curved upon its inner face as indicated at 24 to serve as a fulcrum when said member is used as a tack or nail puller. The lower end of the shank 11 is bifurcated to form depending fingers 25 and 26 which may be conveniently used for cutting tin or the like. The member 21 is provided with a semi-circular recessed portion 27, and the shank 5 is provided with a similar recessed portion, which portions may be used as a wire cutter as will be readily understood.

A device as herein set forth and described is comparatively simple in construction, may be manufactured at a relatively low figure and will be found extremely useful by farm hands or in shops where various classes of work are done.

Having thus fully described the invention what is claimed as new is:

1. A wrench of the class described comprising a shank having a fixed jaw at one end, spaced ears extending from the jaw, a pivoted jaw between the said spaced ears, a sliding shank disposed between the fixed jaw and the pivoted jaw, a plurality of teeth formed upon the inner edge of the sliding shank, a plurality of teeth upon the fixed shank for engaging the teeth of the sliding shank, laterally extending jaws carried by the sliding shank for cooperation with the jaws of the fixed shank, and spring means carried by the pivoted jaw for holding the teeth of the sliding shank yieldingly engaged with the teeth of the fixed shank.

2. A wrench of the class described comprising a fixed shank having a jaw at one



end, parallel spaced ears carried by the fixed  
shank, a jaw pivoted between said ears, a  
shank slidable between the said jaws, jaws  
carried by the sliding shank for coöperation  
5 with the first named jaws, teeth carried by  
the sliding shank, teeth carried by the fixed  
shank, said pivoted jaw having the inner  
edge thereof inclined away from the outer  
edge of the sliding shank to provide pivotal  
10 movement of the latter between the said  
pivoted jaw and the said fixed jaw, and a

leaf spring carried by the pivoted jaw for  
engaging the sliding shank to hold the teeth  
thereof yieldingly engaged with the teeth of  
the fixed shank.

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

GEORGE LEE HINDMAN.

Witnesses:

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FRANK C. DRAKE.