

G. D. POINDEXTER.  
PIPE AND NUT WRENCH.  
APPLICATION FILED OCT. 2, 1908.

916,781.

Patented Mar. 30, 1909.

Fig. 1.

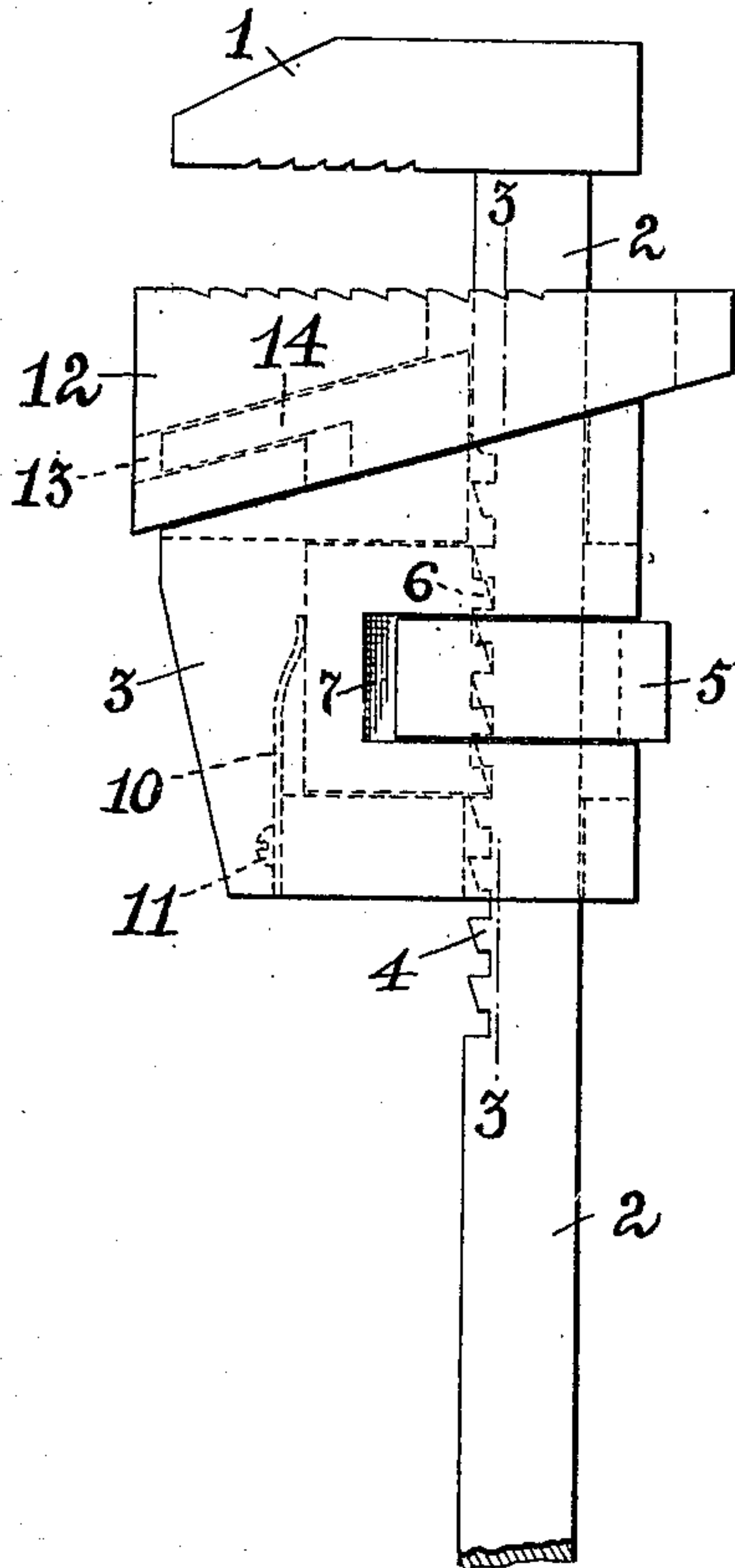


Fig. 2.

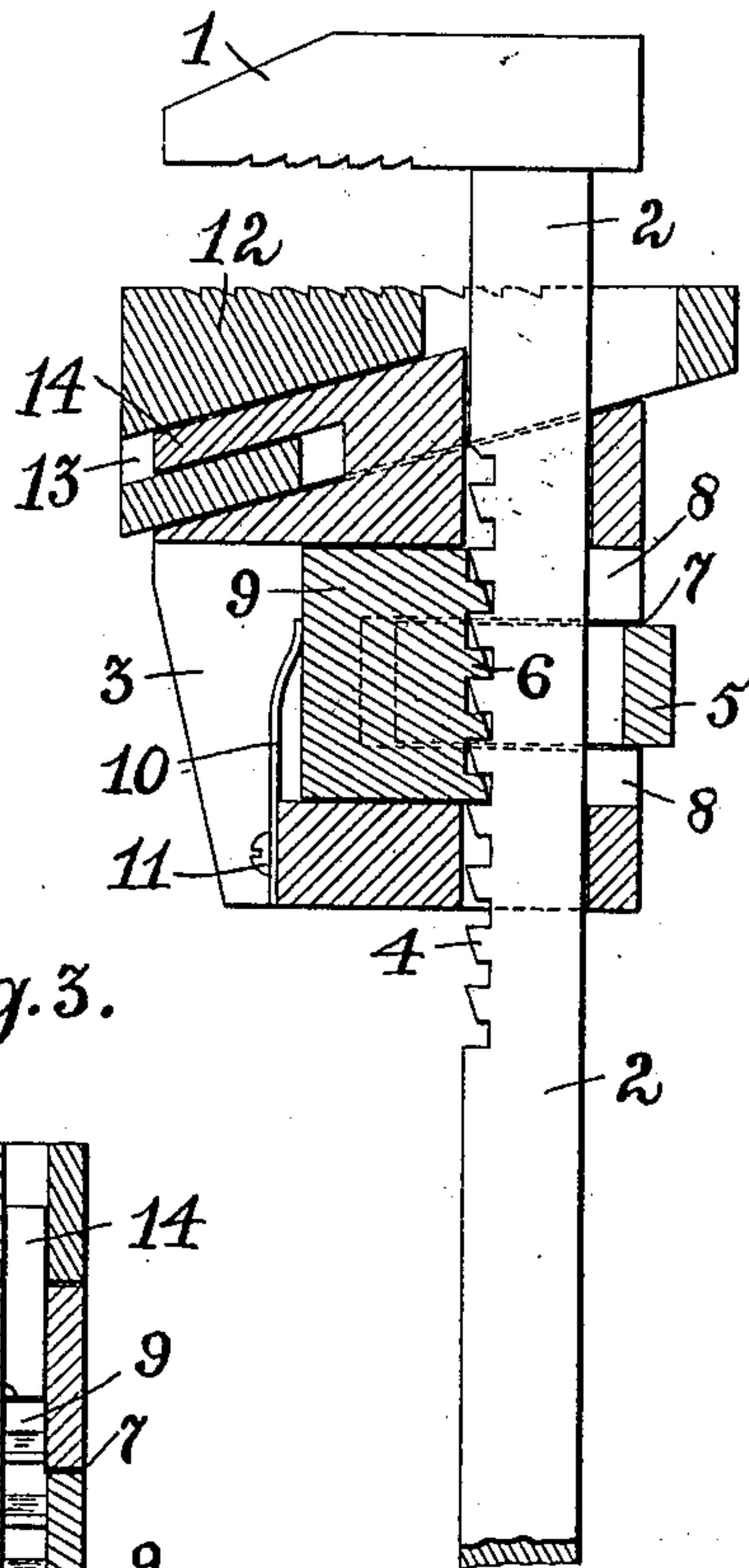


Fig. 3.

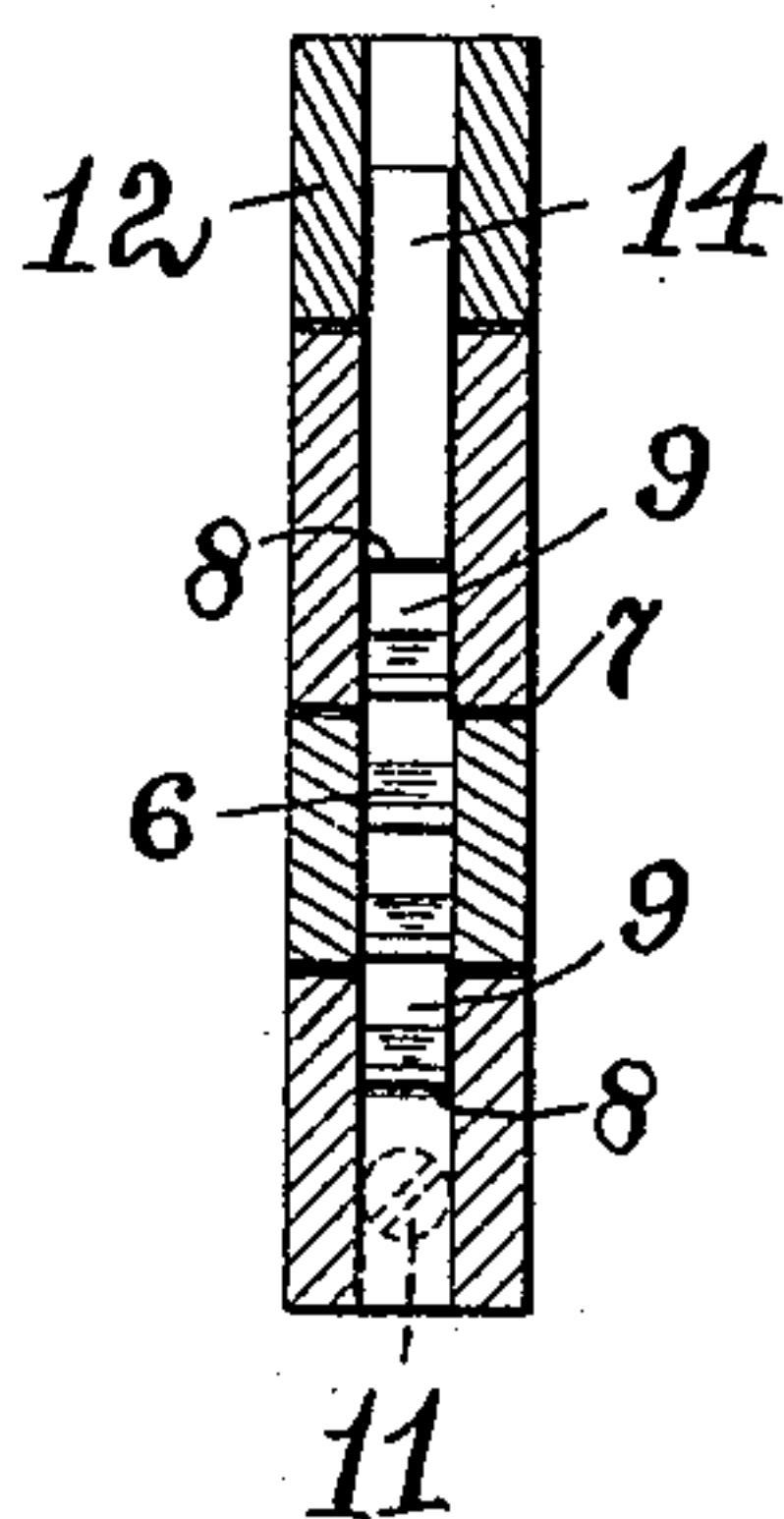


Fig. 5.

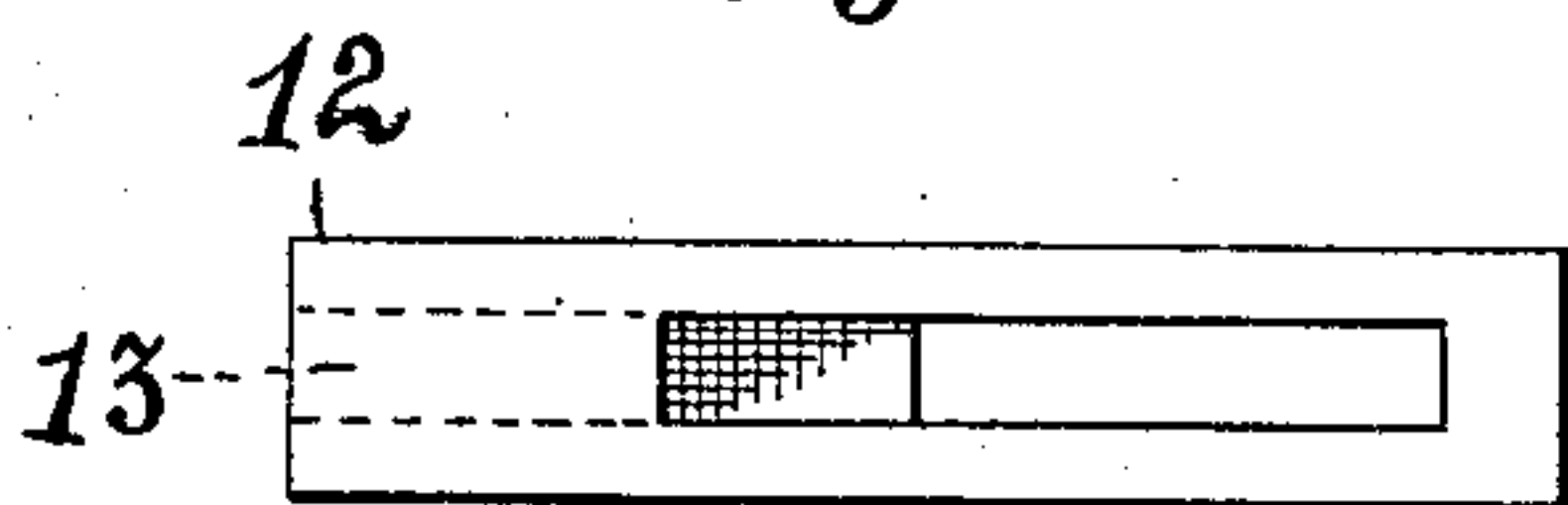


Fig. 4.

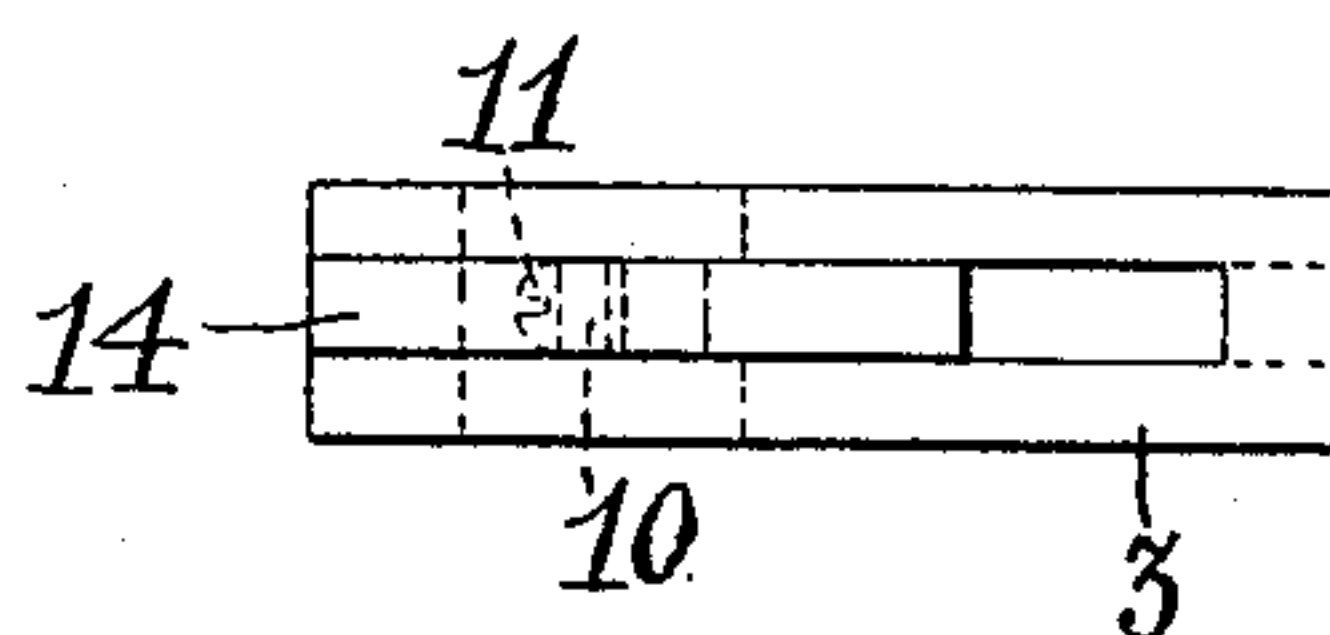
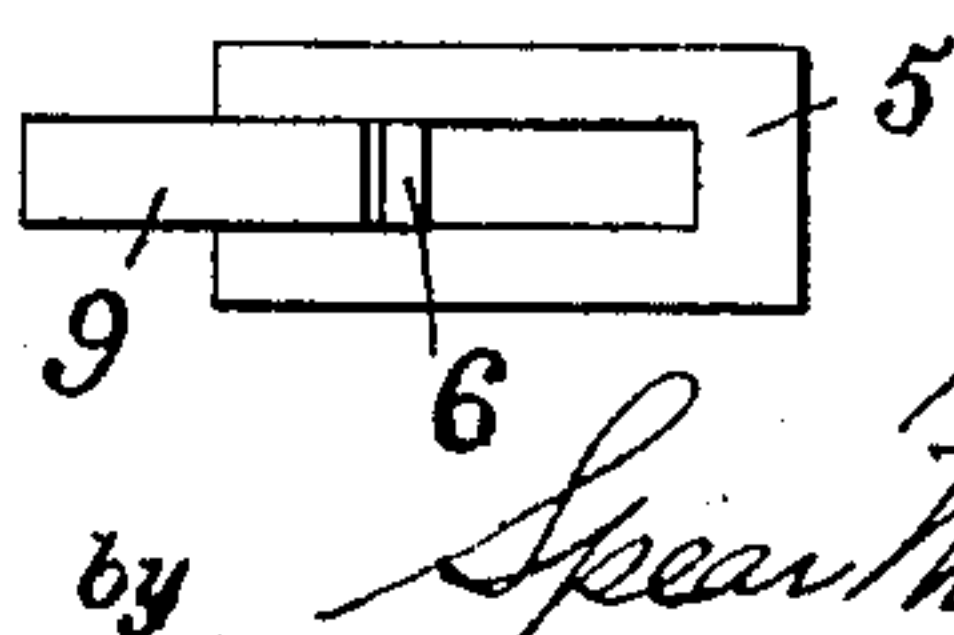


Fig. 6.



Attest:  
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Inventor:

George D. Poindexter,  
by Spear Middleton & Middleton, Attys.



# UNITED STATES PATENT OFFICE.

GEORGE D. POINDEXTER, OF MOUNDSVILLE, WEST VIRGINIA, ASSIGNOR OF ONE-HALF TO  
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## PIPE AND NUT WRENCH.

No. 916,781.

Specification of Letters Patent.

Patented March 30, 1909.

Application filed October 2, 1908. Serial No. 455,812.

*To all whom it may concern:*

Be it known that I, GEORGE D. POINDEXTER, citizen of the United States, residing at Moundsville, West Virginia, have invented certain new and useful Improvements in Pipe and Nut Wrenches, of which the following is a specification.

My invention is an improvement in pipe and nut wrenches, and one object thereof is to provide a simple and effective structure whereby the maximum adjustment may be quickly secured and also a minimum or finer adjustment by an arrangement of a jaw readily movable upon a carrier or block which is adjusted to secure the approximate position of the jaws in relation to each other.

Another object of my invention is to provide a structure in which the parts will be held together by the stem or shank of the fixed jaw when this is in a proper position engaging the several parts, these parts being readily separable from each other when the shank or stem is removed from engagement therewith.

The invention consists in the features and combination and arrangement of parts hereinafter described and particularly pointed out in the claim.

In the accompanying drawings Figure 1 is a side elevation of a wrench constructed in accordance with my invention; Fig. 2 is a central longitudinal sectional view through the wrench; Fig. 3 is a sectional view on the line 3—3 of Fig. 1 with the stem omitted; Fig. 4 is a plan view of the carrier block; Fig. 5 is a bottom plan view of the movable jaw. Fig. 6 is a plan view of the detent.

In these drawings, the fixed jaw of the wrench is indicated at 1 and its stem at 2; 3 indicates a block carrier mounted upon the stem or shank of the fixed jaw and movable longitudinally thereof. The stem 2 is provided with a series of teeth along one side, as at 4, adapted to be engaged by a detent 5 carried by the movable block and having a series of teeth 6 to engage the teeth on the shank of the fixed jaw. The carrier block is provided with an opening or a passage way at 7 and it is provided with slide ways 8 in which the main portion of the detent moves. This detent is also provided with an opening for the passage of the shank of the fixed jaw, and its toothed portion extends above and below the main portion or body of the detent and is of less width in re-

spect thereto so that it may slide into grooves or ways in the block or carrier, as shown at 9. The detent is pressed upon by a leaf spring 10 secured to the block or carrier by a screw 11 and tending constantly to force the detent into engagement with the shank of the fixed jaw. The carrier block extends considerably to one side of the shank or stem 2, and it is provided, on its upper side, with an inclined surface adapted to receive the movable jaw 12 which is inclined on its lower side to move upon the incline of the block. This movable jaw also has a passage extending therethrough to receive the shank or stem of the fixed jaw, and it has a recess or way 13 with which engages a tongue 14 extending upwardly and thence laterally from the upper face of the block or carrier, the said tongue being inclined to conform to the incline of the movable jaw and the upper edge of the block. This tongue forms a connection between the carrier block and the movable jaw, but permits the said jaw to have movement laterally in respect to the block and to the stem. The jaw, on its upper side, is serrated, as is also the opposing face of the fixed jaw, so as to readily grasp any article which is placed between them.

Normally, the detent is pressed by the spring to be in engagement with the teeth of the shank or stem of the fixed jaw, but, by pressing the detent toward the left, its teeth will be disengaged from those of the shank, and the carrier or block may be adjusted along the stem to secure the approximate adjustment of the movable jaw in relation to the fixed jaw.

In order to provide for a finer adjustment of the movable jaw after the approximate adjustment has been secured, it will be simply necessary to press upon the end of the movable jaw which, being guided by the inclined contacting surfaces between the said jaw and the block, will move the gripping surface of the movable jaw in respect to the surface of the fixed jaw. For this purpose the movable jaw is free to be moved by a slight lateral pressure exerted thereon, so as to secure the finer adjustment. For this purpose also the opening in the movable jaw is of sufficient extent to allow the lateral movement of the said jaw without striking the shank or stem of the fixed jaw.

It will be seen that the stem or shank 2 passes through all of the parts above de-



scribed, namely: the movable jaw, the carrier block, and the detent, holding these parts locked together against removal in relation to each other. If it is desired to take  
5 the wrench apart, it is simply necessary to withdraw the stem from the carrier block and the parts connected therewith, and then the detent can be freely removed by slipping it out laterally, and the movable jaw can be  
10 detached by a like movement, but in the opposite direction.

I do not limit myself to the precise details of construction described, nor to the precise form or arrangement of parts, as changes as  
15 to details can be made without departing from the spirit of my invention.

I claim as my invention:—

In combination in a wrench, a fixed jaw having a stem, a block slidable on the stem and having an outwardly directed tongue 20 and an inclined surface, a movable jaw slidable on said inclined surface and having a groove to receive the tongue, said movable jaw, together with the sliding block, each having a portion embracing the stem, substantially as described. 25

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

GEORGE D. POINDEXTER.

Witnesses:

WALTER DONALDSON,  
HENRY E. COOPER.