No. 827,250. PATENTED JULY 31, 1906.

W. I. MEASER.

WRENCH.

APPLICATION FILED FEB. 7, 1906.

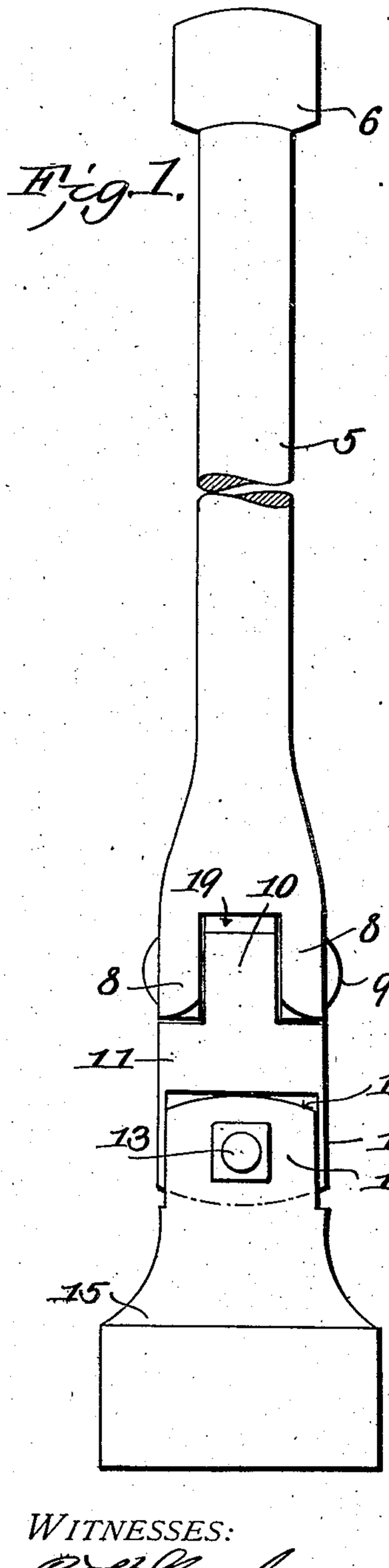

Fig. 1.

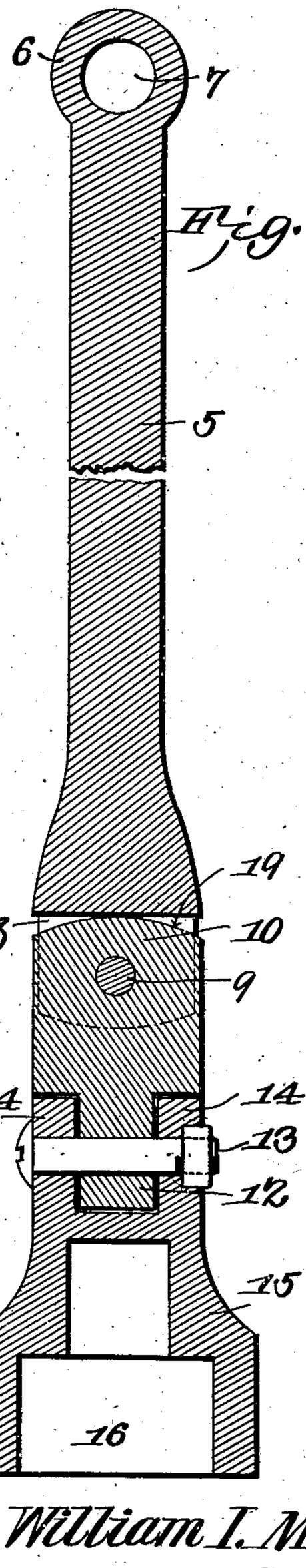

Fig. 2.

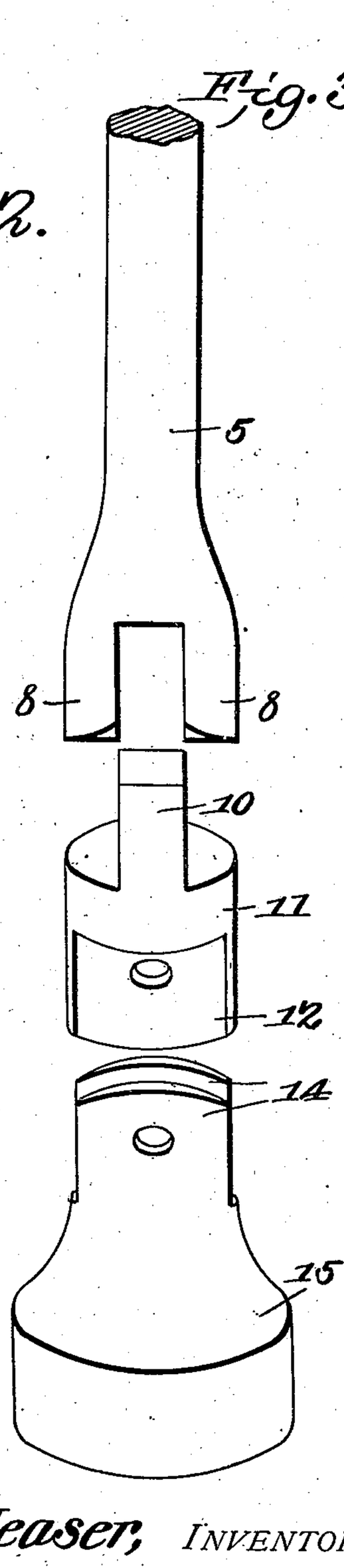

Fig. 3.

WITNESSES:

E. F. Allexandt

T. N. Acker.

William I. Measer, INVENTOR.

By Cushman & Co

ATTORNEYS

UNITED STATES PATENT OFFICE.

WILLIAM I. MEASER, OF HUTCHINSON, KANSAS.

WRENCH.

No. 827,250. Specification of Letters Patent. Patented July 31, 1906.

Application filed February 7, 1906. Serial No. 299,979.

To all whom it may concern:

Be it known that I, WILLIAM I. MEASER, a citizen of the United States, residing at Hutchinson, in the county of Reno and State of Kansas, have invented a new and useful Wrench, of which the following is a specification.

This invention relates to wrenches of that general class employed in removing or adjusting nuts on threshing-machine cylinders.

The object of the invention is to provide a simple, inexpensive, and efficient wrench of the character described in which the nut-engaging head is pivotally mounted for universal movement on the shank or handle whereby the device may be used for manipulating nuts not accessible with an ordinary wrench.

A further object of the invention is to generally improve this class of devices so as to add to their utility and durability as well as to reduce the cost of manufacture.

With these and other objects in view the invention consists in the construction and novel combination and arrangement of parts, hereinafter fully described, and illustrated in the accompanying drawings, it being understood that various changes in form, proportions, and minor details of construction may be resorted to within the scope of the appended claims.

In the accompanying drawings, forming a part of this specification, Figure 1 is a side elevation of a cylinder-wrench constructed in accordance with my invention. Fig. 2 is a longitudinal sectional view of the same. Fig. 3 is a perspective view of the several parts comprising the wrench detached.

Similar numerals of reference indicate corresponding parts in all the figures of the drawings.

The improved device consists of a handle or shank 5, one end of which is provided with a transverse enlargement 6, having a recess 7 formed therein, while the opposite end thereof is bifurcated to form a pair of spaced arms 8, between which is pivotally mounted, as by a pin or rivet 9, the reduced extension or tongue 10 of an intermediate section 11. The section 11 is formed with a second tongue or extension 12, disposed at right angles to the tongue 10 and pivotally mounted on a pin or bolt 13 between the spaced arms 14 of the head 15. The arms 8 and 14 form sockets for the reception of the tongues on the intermediate section 11, thereby strengthening the wrench and relieving the rivets or pivoted pins of excessive strains incident to operating the wrench. The head 15 is provided with a rectangular recess or socket 16 for the reception of the nut or bolt to be removed, and the ends of the arms 14 are preferably inclined or beveled at 17 to permit free lateral movement of said head in manipulating the wrench. The ends of the tongues 10 and 12 are also preferably inclined or beveled at 19, as are likewise the ends of the arms 8 of the handle 5, so that the several sections comprising the wrench are free to move laterally with respect to each other. It will thus be seen that the nut-engaging head has a universal movement thereby enabling the wrench to be introduced into a cavity or recess for operating on a nut which is not accessible with an ordinary wrench.

In operation the head of the wrench is introduced within the cylinder and positioned on the nut to be removed or adjusted, after which a bar or lever is inserted in the transverse recess in the shank or handle to assist in rotating said handle in the act of adjusting the nut.

Attention is called to the fact that the head 15 is detachably secured to the intermediate section, so that said head may be quickly removed and replaced by a similar head having a larger or smaller nut-receiving socket, as the occasion may require.

While the wrench is especially designed for use in connection with threshing-machine cylinders, it is obvious that the same may be used with equally good results for removing and adjusting tire-bolts, railway-bolts, and for various other purposes.

Having thus described the invention, what is claimed is—

1. A wrench comprising a handle having one end thereof formed with a socket, a work-engaging head provided with a similar socket, and a movable section having oppositely-disposed tongues defining intermediate shoulders, said tongues engaging the sockets and forming a pivotal connection between the head and handle respectively, the ends of the tongues being curved and spaced from the walls of the socket and the ends of the head and handle being also curved for engagement with the shoulders.

2. A wrench comprising a handle, one end of which is provided with an enlargement having a transverse recess formed therein

for the reception of an operating-tool and its opposite end formed with a socket, a work-engaging head provided with a similar socket, and a movable section having oppositely-disposed tongues defining intermediate shoulders, said tongues engaging the sockets and forming a pivotal connection between the head and handle, respectively, the ends of the tongues being curved and spaced from the walls of the socket and the ends of the head and handle being also curved for engagement with the shoulders.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

WILLIAM I. MEASER.

Witnesses:
JAMES RANDLES,
WILLIAM H. PHARES.