

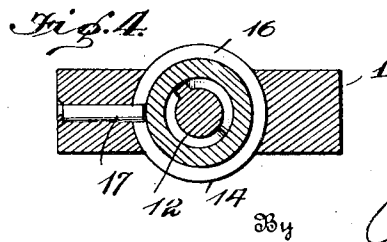
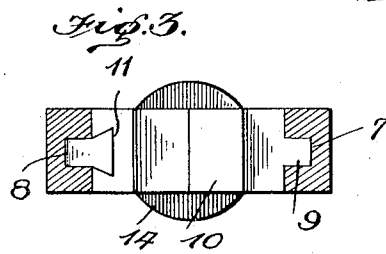
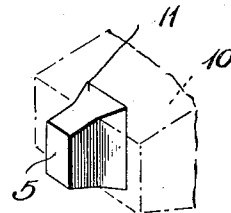
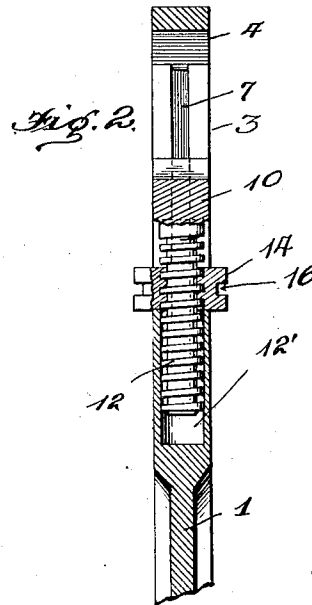
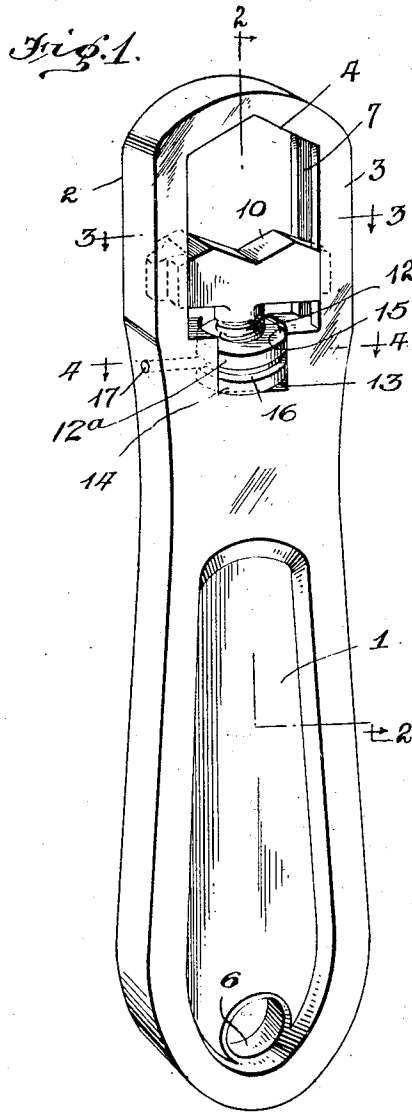
J. H. LYND'S.

WRENCH.

APPLICATION FILED FEB. 21, 1920.

1,359,403.

Patented Nov. 16, 1920.



Inventor

Jesse H. Lynds

Amos L. Perry

Attorney

UNITED STATES PATENT OFFICE.

JESSE H. LYND, OF MUSKOGEE, OKLAHOMA.

WRENCH.

1,359,403.

Specification of Letters Patent. Patented Nov. 16, 1920.

Application filed February 21, 1920. Serial No. 360,533.

To all whom it may concern:

Be it known that I, JESSE H. LYND, a citizen of the United States, residing at Muskogee, in the county of Muskogee and State of Oklahoma, have invented new and useful Improvements in Wrenches, of which the following is a specification.

My invention relates, in general, to an adjustable wrench, and more specifically to a wrench of light and strong construction embodying but few working parts.

A further object of the invention is to provide a wrench which will be cheap and economical to manufacture and which will be capable of application in places where the space is limited.

Reference is made in the following specification to the accompanying drawing, in which:—

Figure 1 is a perspective view of a preferred form of my invention;

Fig. 2 is a longitudinal section on the line 2—2 of Fig. 1;

Fig. 3 is a transverse section on the line 3—3 of Fig. 1;

Fig. 4 is a transverse section on the line 4—4 of Fig. 1; and

Fig. 5 is a detail view of the removable rib as applied to the adjustable jaw.

The wrench consists of the body 1 which is recessed at its upper end to form the opposite side walls 2 and 3 which terminate in the upper fixed jaw members 4. The lower part of the body is cut away in order to secure lightness and economy in material and is also provided with an aperture 6 by which the wrench may be suspended on the wall of the work-shop, if desired. The side walls 2 and 3 are longitudinally grooved, as shown at 7 and 8, which grooves are adapted to receive, respectively, a rib 9 fixed to the adjustable jaw 10, and a removable rib 5 hereinafter described.

The side of the adjustable jaw opposite from the fixed rib 9 is provided with a groove preferably in the form of a mortise 11 for receiving the removable rib or tenon 5, the base portion of which is formed as a tenon to tightly fit the mortise 11. While this construction is preferred, it will be apparent that other equivalent means may be employed and, in fact, a straight groove into which the rib 5 is pressed would suffice, or a tapered pin or the like (not shown) may be placed transversely through

the rib 5 and adjustable jaw 10 for further securing the removable rib in place.

The adjustable jaw 10 has a downwardly extending shank 12 which fits within a hole 12' bored within the body 1. The hole 12' terminates at its upper end in a transverse recess 12^a, open at its upper end, which recess is provided at its lower end with a shouldered portion 13 adapted to sustain an adjusting nut 14. The adjusting nut 14 also bears upon the cylindrical sides 15 of the terminal recess and is adapted to internally receive the threaded shank 12 of the adjustable jaw. The nut 14 is provided with a circumferential groove 16 which is adapted to receive a securing pin or screw 17 which engages in the groove and thereby prevents longitudinal movement of the adjusting nut.

In assembling my wrench, the threaded shank is first inserted through the adjusting nut 14 and the latter is then placed in its seat, it being understood that the removable rib 5 is not at this time applied, although the fixed rib 9 is positioned in the groove 7. After the shank 12 has been engaged with the threads of the nut 14 and the adjustable jaw has been lowered to a suitable position, the rib 5 is placed in groove 8 and pressed into the mortise 11 and is thereafter retained in place by the tight fit of these dovetailed parts. The pin 17 may be inserted at any desired stage of the assembling. It will be understood that the nut 14 projects slightly beyond the sides of the body 1 so that it may be readily turned for longitudinally moving the adjustable jaw toward or away from the upper jaw member and that the stress applied to turning the nut which is gripped between the jaws of the wrench is transmitted directly to the body through the shank 12 and nut 14 to the shoulders and side walls of the transverse recess.

I claim:—

1. A wrench comprising a body having upwardly projecting side walls terminating in a fixed jaw member, said walls having a longitudinal groove formed therein, an adjustable jaw having a removable and a fixed rib slidable in said grooves, a threaded shank extending from said adjustable jaw and adapted to be housed within a cylindrical bore formed in said body, a transverse recess formed through said body,

a nut fitting said recess and engaging said threaded shank, and means for preventing longitudinal movement but permitting rotation of said nut.

- 5 2. A wrench comprising a body having side walls with longitudinal grooves formed therein, said side walls terminating in a fixed jaw member, an adjustable jaw, an integral rib on one side of said adjustable jaw for engaging one of said grooves, a
10 tenon removably mounted in the other side of said adjustable jaw for engaging the other of said grooves, and means for moving said adjustable jaw toward or away
15 from said fixed member.

3. A wrench comprising a body having side walls with longitudinal grooves formed therein, said side walls terminating in a fixed jaw member, an adjustable jaw, an
20 integral rib on one side and a removable tenon on the other side of said adjustable jaw for engaging said grooves, a shouldered recess formed in said body, a grooved nut mounted in said recess and sustained in po-

sition by the shoulders thereof, a threaded 25 shank extending from said adjustable jaw and engaging said nut, and means positioned in said groove for maintaining the nut in contact with said shoulders.

4. A wrench comprising a body having 30 side walls formed with longitudinal grooves throughout their exposed length, said side walls terminating in a fixed jaw member, an adjustable jaw, an integral rib on said adjustable jaw for engaging one of said 35 grooves, a tenon removably mounted in the adjustable jaw for engaging the other of said grooves, and means for moving said adjustable jaw toward or away from said fixed member. 40

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JESSE H. LYND.

Witnesses:

A. R. COTTLE,
H. R. BLAKE.