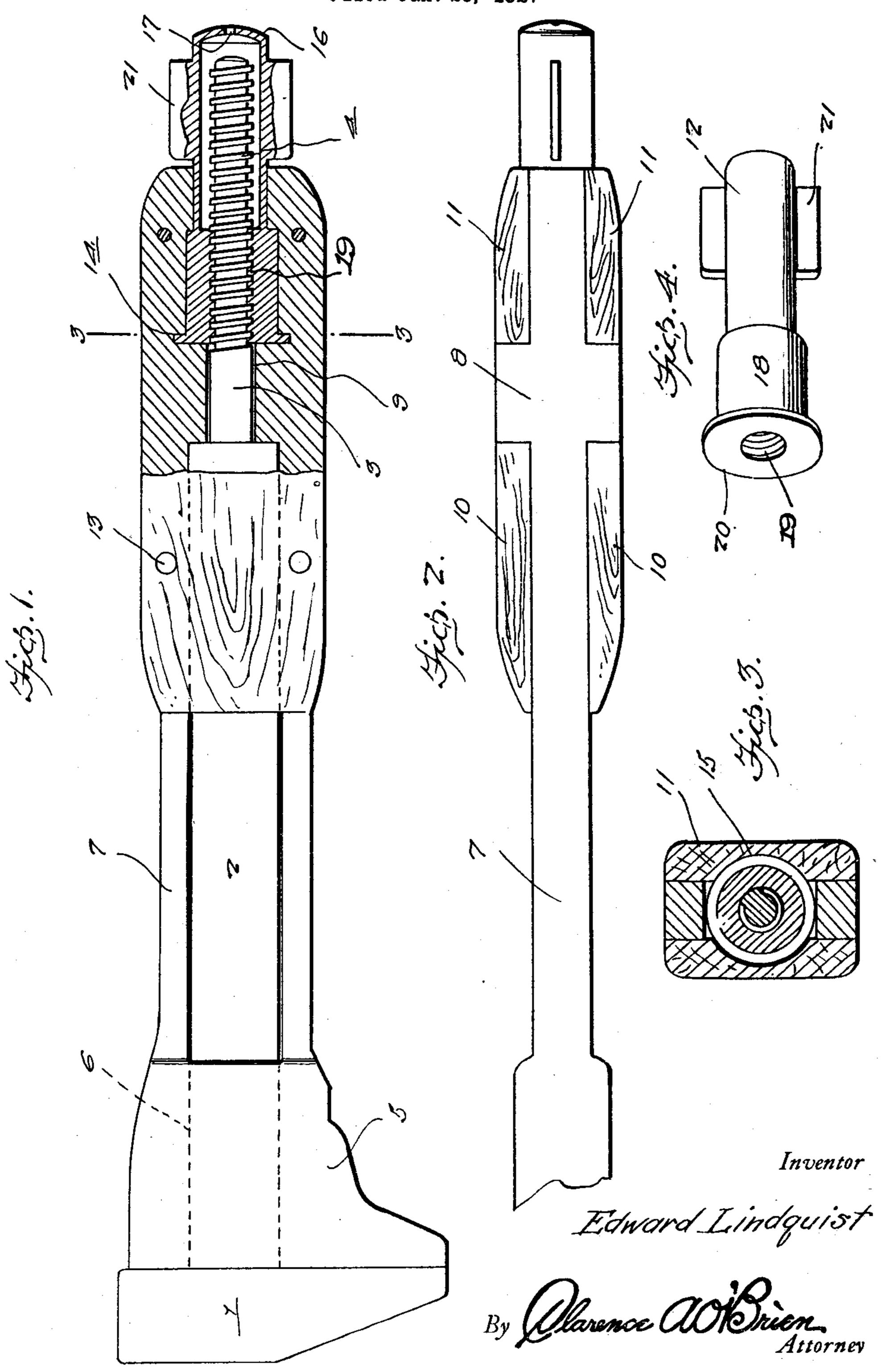
## E. LINDQUIST

SLIDING JAW WRENCH

Filed Jan. 25, 1927



## UNITED STATES PATENT OFFICE.

EDWARD LINDQUIST, OF OMAHA, NEBRASKA.

SLIDING-JAW WRENCH.

Application filed January 25, 1927. Serial No. 163,405.

My present invention pertains to wrenches prises wooden sections 10, wooden sections great facility.

In the accompanying drawing forming part of this specification:—

Figure 1 is a view partly in side elevation and partly in section illustrative of the preferred embodiment of my invention.

Figure 2 is a broken view in elevation taken at right angles to Figure 1.

Figure 3 is a transverse section taken on the plane indicated by the line 3-3 of Figψθ ure 1.

Figure 4 is a detail perspective of the adjusting member of the wrench.

Similar numerals of reference designate corresponding parts in all the views of the piece of steel or of any appropriate metal, 25 drawing.

said jaw 1 is integral with a shank 2, of threaded portion of the shank 2 of the mem- 85 rectangular cross section, and the said shank ber 12. By comparison of Figures 1 and 3 tion 3 being equipped with a thread 4 as cular cross section and is interiorly threaded 90 the parts defined as integral therewith may inner end with a circular flange 20, the latter wrench purposes.

of steel, iron or other appropriate metal or sections 11 of the wrench as is the tubular metallic alloy. The said body is formed in portion of the member 12, and at a point in one piece and comprises a jaw 5 with a bore the rear of and by preference slightly spaced "" or passage 6 therethrough in which the from the metallic body and the wood section shank 2 is sheathed, and also comprises 11, the adjusting member 12 is provided with spaced parallel longitudinal portions 7, and exterior wings 21 through the medium of an intermediate portion 8 in which is a bore which the member 12 may be powerfully 9 for the reception of the portion 3 of the turned about its axis. In this connection it 100 shank 2; said portion 8 being extended later- will be appreciated that the handle formed ally in opposite directions from the plane in which the portions 7 are disposed, as appears in Figure 2.

The embodiment illustrated further com-

of the sliding jaw types; and it has for its 11, and an adjusting member 12, the latter object the provision of a sliding jaw wrench shown in detail in Figures 1 and 4. By parwhich while simple and inexpensive in con-ticular reference to Figures 1 and 2, it will 5 struction and strong and durable, it is be noted that the rear portion of the longi- 60 adapted to be adjusted and handled with tudinal bars 7 of the wrench body are increased in width, and that the wood sections To the attainment of the foregoing, the 10 and 11 are arranged at opposite sides of invention consists in the improvement as said comparatively wide portions of the bars hereinafter described and definitely claimed. 7 and are fixedly connected to said bar por- 65 tions through the medium of transverse rivets 13; also, that the wood sections abut at their inner ends against and are reinforced by the intermediate enlargement 8 of the body, and that the sides of the said enlarge- 70 ment 8 and the sides of the wood sections 10 and 11 are flush as appears in Figure 2. It will further be noted by comparison of Figures 1 and 3 that the body of the wrench is recessed at 14, and the wood sections 11 75 are recessed at 15 for the reception and circular movement of the adjusting element 12.

The adjusting member 12 is formed in one and is of general tubular form, the outer end 80 Among other elements, my novel wrench of the tube being closed as designated by 16 comprises a sliding jaw 1 which within the and being provided with a central minute purview of my invention may be of the aperture 17 through which oil may be inshape illustrated or any desired shape. The troduced for the thorough lubrication of the 2 at its heel end is integral with and is and 4, it will be understood that the memmerged into a reduced rear portion 3 of cir- ber 12 is provided at its inner end with a cular cross section, by preference. The por- nut portion 18 which is exteriorly of cirappears in Figures 1 and 3. The jaw 1 and as designated by 19, and is provided at its without affecting my invention be made of being disposed in the recess 14 of the body so steel or of any other material suitable for that the member 12 is by the body strongly held against longitudinal movement in either 95 In addition to the jaw 1, and the parts in-direction. The nut 18 is turnable about its tegral therewith, the wrench includes a body axis in the metallic body and the wooden by the portion 8 and the wood sections 10 and 11 may be held by an operator in one hand, while with his other hand the operator turns the member 12 about its axis for the 110 adjustment of the jaw 1 relative to the body jaw 5.

By virtue of the spaced longitudinal bars 7, comprised in the wrench body, and the 5 wood sections 10 and 11 carried by the said body, it will be appreciated that the wrench is provided with a convenient handle or hand grasp and that the shank 2 is adequately housed as is also the adjusting mem-10 ber 12, and this without making the wrench heavy and without detracting from the strength and durability of the wrench.

20 cost.

30 rily subjected.

embodiment of my invention in order to impart a full, clear, and exact understanding the shank.

I do not desire, tion receiving and engaging the thread on the shank.

In testimony whereof I affix my signature. however, to be understood as limiting myself to the precise construction disclosed, my in-

vention being defined by my appended claim within the scope of which modifications may 40 be made without departure from my invention.

Having thus described the invention, what I claim is:—

A wrench consisting essentially of a sliding 45 jaw having an integral shank provided at its rear end, with a reduced and threaded portion, a body including a jaw with a longitudinal passage therein through which said shank extends, longitudinal spaced bars ex-50It will also be appreciated from the fore-tending rearwardly from last named jaw going that by virtue of their character, the and provided with rear internally recessed 15 several parts of the wrench may be easily portions, and an intermediate portion joinproduced, and that the said parts may be ing the bars immediately in front of said rereadily assembled and secured in relative cesses and extending laterally in opposite di- 55 working position, with the result that the rections from the plane of the bars and havwrench as a whole may be produced at small ing a longitudinal passage through it, sections of material different from that of the While I refer to the sections 10 and 11 as body, arranged in front and rear of the being of wood, and I prefer to employ laterally extending parts of the intermediate 60 wooden sections 10 and 11, I would have it portion of the body and abutting against understood that within the purview of my and arranged flush with said lateral parts invention the sections 10 and 11 may be made and connected to opposite sides of the longiof fiber or of any other appropriate mate-tudinal bars, and an adjusting member jourrial which is lighter than metal, and is at naled in the longitudinal bars of the body 65 the same time capable of withstanding the and in the rear sections of material different rough usage to which wrenches are ordina- from that of the body and extending rearwardly beyond the longitudinal bars and I have entered into a detailed description of said sections, and having a flange at its inthe construction and relative arrangement of ner end disposed in the said recesses of the parts embraced in the present and preferred body bars and also having a threaded por-

In testimony whereof I affix my signature.

EDWARD LINDQUIST.