

C. P. BROCKWAY.
SPLINE SHAFT SPANNER WRENCH.
APPLICATION FILED OCT. 5, 1917.

1,303,157.

Patented May 6, 1919.

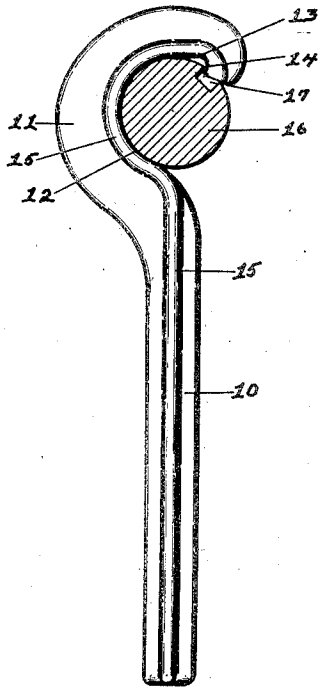


FIG. I.

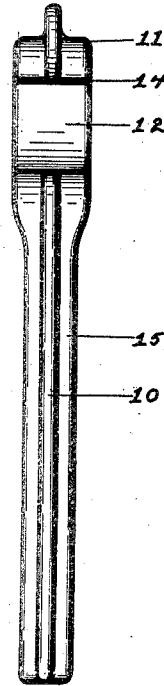


FIG. I.

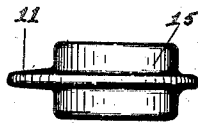


FIG. II.

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SPLINE-SHAFT SPANNER-WRENCH.

1,303,157.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CARL P. BROCKWAY, a citizen of the United States, residing at Toledo, in the county of Lucas and State of Ohio, have invented certain new and useful Improvements in Spline-Shaft Spanner-Wrenches, of which I declare the following to be a full, clear, and exact description.

This invention relates to improvements in spanner wrenches.

The principal object of this invention is to provide an improved spanner wrench, which is very simple and economical in construction and especially convenient for use in turning spline shafts.

Further objects, and objects relating to economies of manufacture and details of construction, will definitely appear from the detailed description to follow.

I accomplish the objects of my invention by the devices and means described in the following specification.

My invention is clearly defined and pointed out in the appended claims.

A structure constituting a preferred embodiment of my invention is illustrated in the accompanying drawing, forming a part of this specification, in which

Figure I is a view in side elevation, of a wrench constructed in accordance with my invention.

Fig. II is an edge view of the wrench shown in Fig. I, and

Fig. III is an end view of the same.

In the drawings, similar reference numerals refer to similar parts throughout the several views.

Considering the numbered parts of the drawing, I have illustrated a wrench comprising the handle 10 and the head 11, which has a broad semi-circular bearing surface 12, extending throughout practically a complete semi-circle. From the upper end of this semi-circular bearing surface 12, a por-

tion 13 extends tangentially to said semi-circular bearing surface for a short distance, and from the end of this portion 13, a lug 14 extends, at an angle to the part 13, inwardly until it crosses the path which the semi-circular bearing surface 12 would take if extended. A rib 15 is provided, which extends the length of the handle 10, to strengthen the same, and, in the head, comes to one side thereof and forms the broad bearing surfaces 12, 13 and 14, which have been referred to. In Fig. I, a shaft is illustrated at 16, provided with a spline 17.

From the description of the parts given above, the operation of this device should be very readily understood. The semi-circular bearing surface 12 rests on the body of the shaft, while the portion 14, which extends at an angle to the tangential portion 13 projects into the spline formed in the shaft, and causes the head of the wrench to grip the shaft by the engagement of said portion 14 with the wall of the spline, so that the shaft may be rotated. This makes a very convenient and simple spanner wrench for use in connection with spline shafts, and one which can be produced very cheaply in large quantities, as it is made of one piece, which may be a malleable casting, and requires practically no machining or work.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:

A device of the class described, comprising a handle; a head secured to said handle and provided with a broad semi-circular bearing surface; a bearing surface extending from one end of said semi-circular bearing surface tangentially thereto, and a lug extending at an angle to said tangential portion and crossing the line of the semi-circular bearing surface extended.

In testimony whereof I affix my signature.
CARL P. BROCKWAY.