L. R. HOFFMAN.

SPANNER WRENCH.

APPLICATION FILED APR. 12, 1909.

943,935.

Patented Dec. 21, 1909.

Fig. 1.

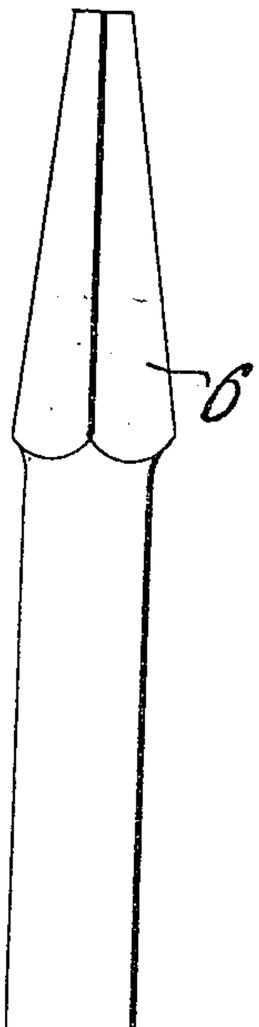


Fig. 3.

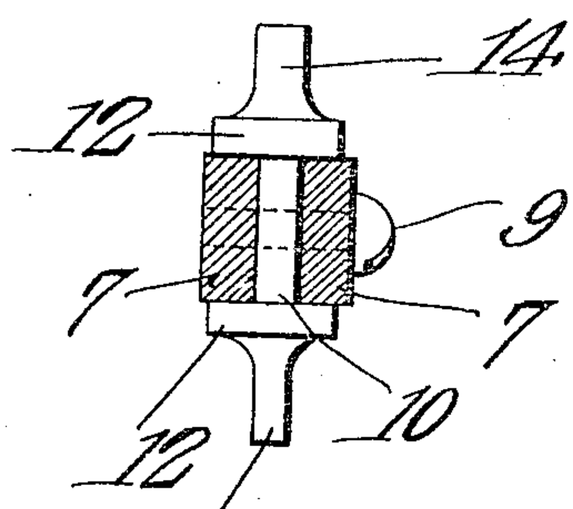
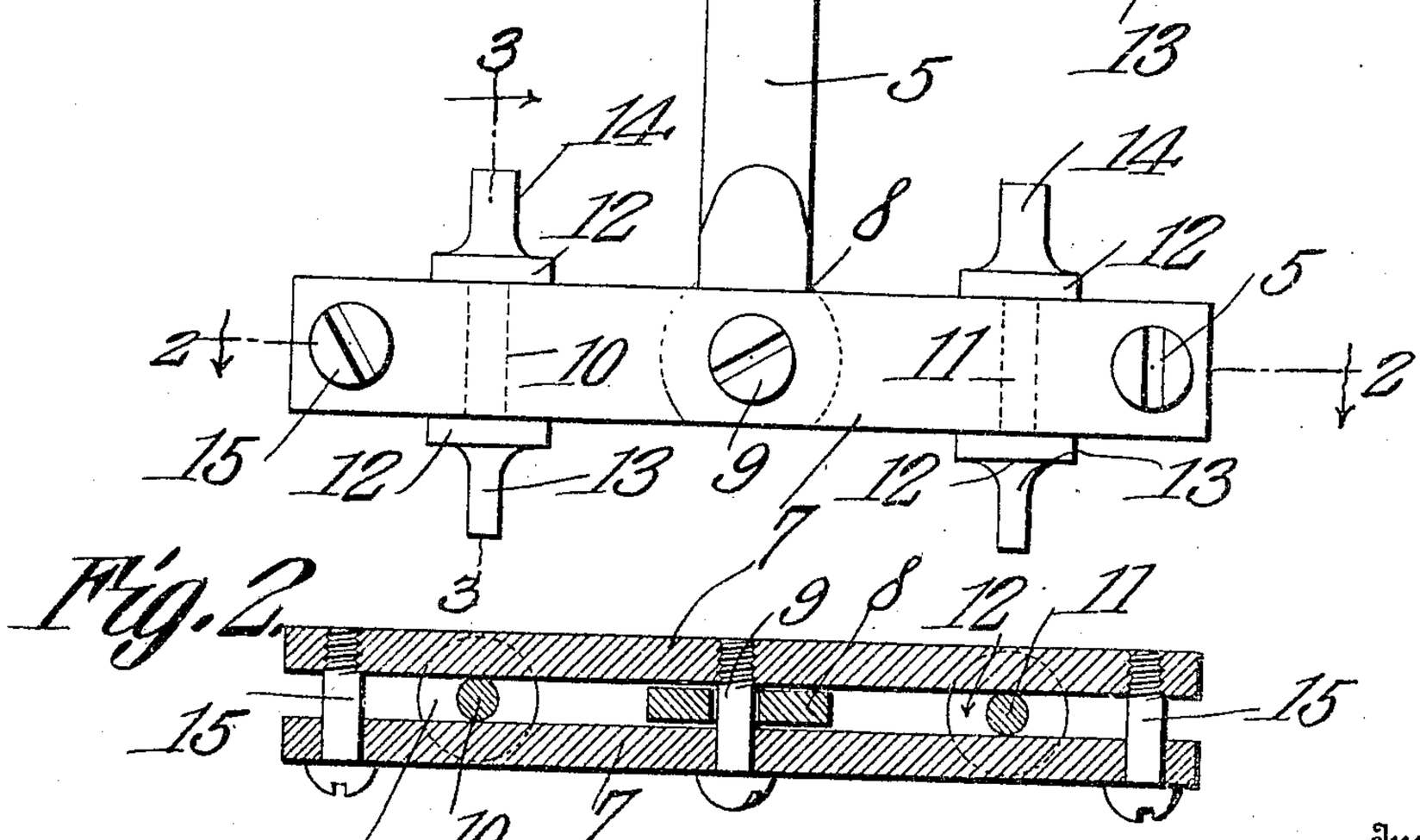


Fig. 2.



Witnesses

E. F. Stewart

M. A. Schmidt

Inventor

Lloyd R. Hoffman.

By Crosby & Co.

Attorneys

UNITED STATES PATENT OFFICE.

LLOYD R. HOFFMAN, OF OIL CITY, PENNSYLVANIA.

SPANNER-WRENCH.

943,935. Specification of Letters Patent. **Patented Dec. 21, 1909.**

Application filed April 12, 1909. Serial No. 489,336.

To all whom it may concern:

Be it known that I, LLOYD R. HOFFMAN, a citizen of the United States, residing at Oil City, in the county of Venango and State of Pennsylvania, have invented a new and useful Spanner-Wrench, of which the following is a specification.

This invention is a spanner wrench designed more particularly for attachment to a valve, to provide a means whereby the valve may be rotated to grind its seat.

The object of the present invention is to provide a wrench of the kind stated which is simple in structure, and also to provide for an adjustment whereby the wrench is adapted for different sized spanner openings.

With the foregoing objects in view, the invention consists in a novel construction and arrangement of parts to be hereinafter described and claimed, reference being had to the drawing hereto annexed forming a part of this specification, in which drawing—

Figure 1 is an elevation of the wrench. Fig. 2 is a horizontal section on the line 2—2 of Fig. 1. Fig. 3 is a vertical section on the line 3—3 of Fig. 1.

Referring more particularly to the drawings, 5 denotes a shank to one end of which the wrench head is pivotally connected. The other end of the shank is squared and made tapering as indicated at 6 to be inserted into the socket of a suitable handle device.

The head of the wrench comprises a pair of spaced parallel plates 7 between which the shank is received, that portion of the shank extending between the plates being flat, as indicated at 8. The head is pivotally connected to the shank by means of a screw 9 passing transversely through the plates and through the portion 8 of the shank fitting therebetween.

The head is provided with a pair of pins indicated at 10 and 11 respectively, said pins fitting between the plates 7. The upper and lower edges of the plates are engageable by collars 12 formed integral with the pins whereby the pins are held against movement in the direction of their length. Each pin is formed at its outer end with studs 13 and 14 respectively, these studs projecting respectively from the upper and lower edges of the head. The studs 13 of the respective pins are of smaller diameter than the studs 14 in order that the wrench may be applied to spanner openings of different diameters.

By spacing the plates 7 as stated, a slot is had in which the pins 10 and 11 are adjustable toward and from each other according to the distance between the spanner openings in the valve or other part to which the wrench is to be applied. The heads are held at adjustment by means of screws 15 passing transversely through the plate adjacent to the ends thereof. The plates are slightly resilient, so that they may be drawn together by means of the screws to tightly grip the pins. Upon taking out these screws, the pins may be removed and reversed, in order to bring the desired set of studs into operative position.

The implement herein described is simple in structure, and effectually serves the purpose for which it is designed. Although it is intended primarily for attachment to a valve for rotating the same to grind its seat, it will be understood that it may be used in other places where a spanner wrench is required.

What is claimed is:

1. A spanner wrench comprising a shank, a pair of spaced plates between which the shank is received, a pivotal connection between the plates and the shank, and pins adjustably mounted between the plates, and projecting therefrom in opposite directions.

2. A spanner wrench comprising a shank, a pair of spaced plates between which the shank is received, a pivotal connection between the plates and the shanks, pins adjustably mounted between the plates, and clamping means passing transversely through the plates for securing the pins in adjusted position therebetween.

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

LLOYD R. HOFFMAN.

Witnesses:

ROBT. J. LEYLAND,

GRANT TERWILLIGER.