H. R. SLOAT.

Wrench.

No. 162,317. Patented April 20, 1875.

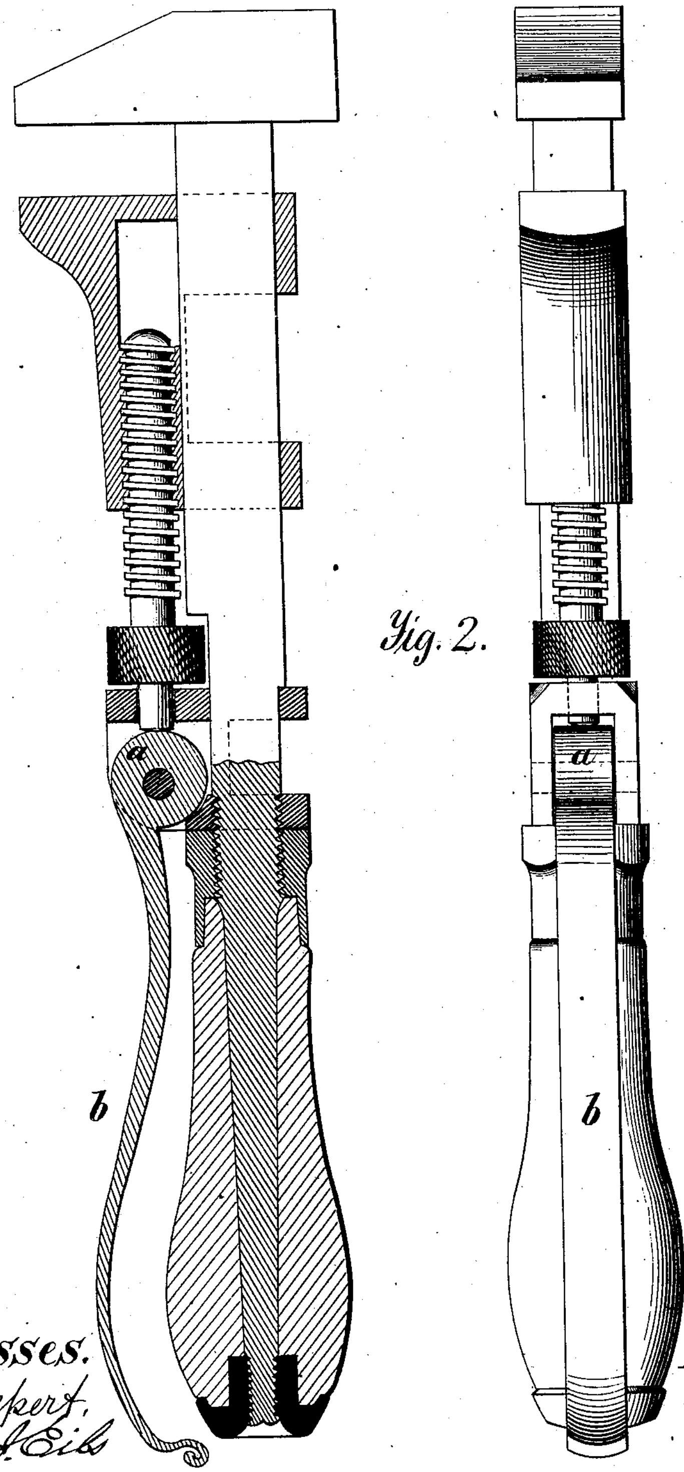

Fig. 1. Fig. 2.

Witnesses.
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UNITED STATES PATENT OFFICE.

HENRY R. SLOAT, OF SLOATSBURG, NEW YORK.

IMPROVEMENT IN WRENCHES.

Specification forming part of Letters Patent No. **162,317**, dated April 20, 1875; application filed February 8, 1875.

To all whom it may concern:

Be it known that I, HENRY R. SLOAT, of Sloatsburg, Rockland county, State of New York, have invented an Improved Monkey-Wrench, by means of which I am able to apply sufficient force to the jaws of the wrench to hold them firmly to the thing to be screwed or held fast by them; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the annexed drawing and to the letters of reference marked thereon, making a part of this specification, in which—

Figure 1 is a vertical projection of an ordinary monkey-wrench; Fig. 2, a transverse section of same, and Fig. 3 a horizontal projection.

The nature of my invention consists in applying to an ordinary monkey-wrench the cam *a*, Fig. 2, with a lever-handle, *b*, so formed that it can be raised to a perpendicular position and pressed down, so as to fit snugly to the handle of the wrench, and of sufficient width to correspond with the size of the wrench. To use this improvement I place the lever, which is attached to the cam *a*, in a perpendicular position to the wrench; then screw up the movable jaw of the wrench to the object to which it is desired to attach the wrench; then bring the lever *b* down to the handle of the wrench, when it will be found that the moving of the cam *a* has fixed the jaws of the wrench immovably to the object desired, and to release their hold it will be necessary to throw up the lever *b* to a perpendicular position. The force of the cam *a*, as is shown in Fig. 2 of the drawings, is applied to the end of the screw which controls the movable jaw of the wrench. The cam is firmly held to its position by an iron clasp around the body of the wrench resting upon the iron shoulders of the handle of the wrench, as shown in Fig. 1. The end of the handle or lever of the cam is formed so as to spring shut into the end of the handle of the wrench, thus keeping it out of the way of the operator.

This cam may be applied to wrenches of various sizes and of different styles.

The use of a separate cam and lever constitutes the distinguishing feature of my invention. It leaves the strength of the wrench unimpaired in every respect, whereas in wrenches of this kind, where the cam is secured to and operated by the handle of the wrench, there must of necessity be a joint between the said handle and the shank of the fixed or stationary jaw, weakening the tool at a point where it should be particularly strong. Again, in my wrench the gripe on the nut and the lock of the screw-spindle is continuously maintained, whether power is applied to the handle of the wrench or not, while in a wrench such as referred to the action of the cam is suspended every time the handle is released.

What I claim as my invention, and desire to secure by Letters Patent, is—

In combination with the movable jaw and screw-spindle of a monkey-wrench, the cam *a*, provided with a separate handle, *b*, for operating and locking it, substantially as and for the purpose specified.

HENRY R. SLOAT.

Witnesses:
G. W. SUFFERN,
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