

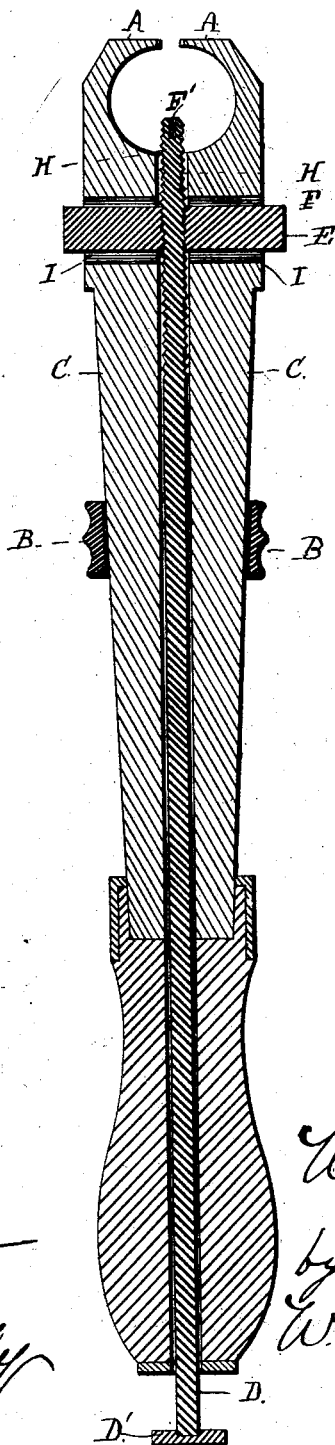
(Model.)

W. HART.

WATCH HAND AND ROLLER REMOVER.

No. 264,531.

Patented Sept. 19, 1882.



Witnesses.
W. J. Morison
McKellinphy

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by
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UNITED STATES PATENT OFFICE.

WILLIAM HART, OF KIRKSVILLE, MISSOURI.

WATCH HAND AND ROLLER REMOVER.

SPECIFICATION forming part of Letters Patent No. 264,531, dated September 19, 1882.

Application filed May 29, 1882. (Model.)

To all whom it may concern:

Be it known that I, WILLIAM HART, a citizen of the United States, residing at Kirksville, in the county of Adair and State of Missouri, have invented a new and useful tool for the use of watch-makers, entitled "Watch Hand and Roller Remover;" and I do hereby declare that the following is a full and clear description of the manner of using the same, sufficient to the full understanding of the artisan of the class to which the tool belongs, reference being had to the annexed drawing, making a part of this specification, in which—

A A represent the jaws of the tool, and B the slide, the shanks C C forming springs which cause the jaws to open when the slide is drawn back. The shanks extend through to the outer end of the handle, and each contains a groove, H, on the inside extending lengthwise from one end to the other. A wire, D, passes through these grooves H H, which form together a round hole of larger diameter than the diameter of the wire D. On the outer end of D is a thumb-piece, D', while upon the other end is cut a screw, (seen at F,) which passes through the threaded bar E, which is

located loosely in bearings in the jaws of said bearings, being larger in cross-sectional area than the bar E.

The tool is applied by holding the handle upward and pressing the jaws together under the hour-hand, when the slide drops down and holds them fast. The hands are then removed both together by turning the screw by the thumb-piece D, meantime guiding the point of the screw to the center of the bar E. Rollers are removed in the same manner, a hole being provided for the pivot of the staff, as seen in the end of the screw at F'.

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

The combination of the tapering spring-shanks C C, provided with jaws A A and grooves H H, the clamping-slide B, the wire D, having screw-thread F, and the threaded bar E, located loosely in larger bearings I I in the jaws A A, substantially as and for the purposes set forth.

WILLIAM HART.

Witnesses:

GEO. R. BREWINGTON,
S. K. FOWLER.