W. & J. Holroyd.

Die-Stock and Tap-Wrench.

No. 51,048. Patented Nov. 21, 1865.

Fig: 1

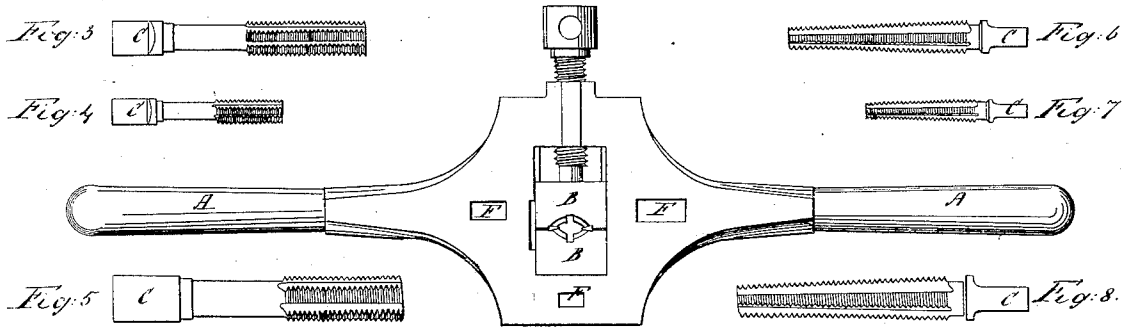


Fig: 9. Fig: 10. Fig: 11.

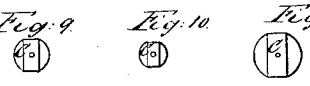


Fig: 2

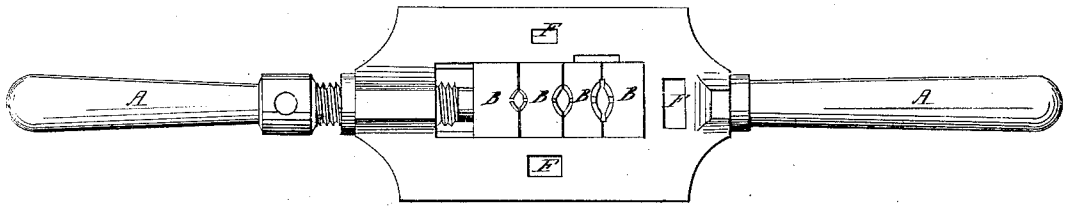
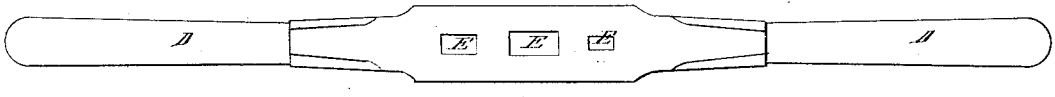


Fig: 12



Witnesses
J. Cramer 2d
Austin F. Park

Inventor
Wm Holroyd
James Holroyd

THE GRAPHIC CO. PHOTO-LITH. 39 & 41 PARK PLACE, N.Y.

UNITED STATES PATENT OFFICE.

WILLIAM HOLROYD AND JAMES HOLROYD, OF WATERFORD, NEW YORK.

IMPROVEMENT IN DIE-STOCKS.

Specification forming part of Letters Patent No. **51,048**, dated November 21, 1865.

To all whom it may concern:

Be it known that we, WILLIAM HOLROYD and JAMES HOLROYD, each of Waterford, in the county of Saratoga and State of New York, have jointly invented a new and useful Combined Die-Stock and Tap-Wrench, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, in which—

Figures 1 and 2 represent two varieties of our said combined die-stock and tap-wrench.

Die-stocks have been heretofore commonly manufactured and sold in market for use each with two handles, A A, Figs. 1 and 2, and between the latter a set or sets of removable dies, B B, for cutting one or more size or sizes of outside screws, and with a separate tap or taps, Figs. 3, 4, 5, 6, 7, 8, 9, 10 11 of said drawings, for cutting corresponding inside screws, said tap or taps being made with an angular or flat-sided shank or shanks, C, and commonly turned in use by means of a separate tap-wrench, Fig. 12, having two handles, D D, at its ends, and between the handles and perpendicular, or nearly so, to the plane thereof, a socket or sockets, E, for receiving the shank or shanks of the tap or taps.

Now, our invention consists in making a screw-cutting die-stock with a socket or sockets therein for receiving the shank or shanks of a screw-tap or screw-taps between and perpendicular, or nearly so, to the plane of the two handles of the die-stock, so as to thereby produce in one and the same tool a complete die-stock and tap-wrench in which the handles of the die-stock serve also as the handles of the tap-wrench, and in which the tool is at all times ready for use either as a screw-cutting die-stock or as a tap-wrench without alteration or adjustment of any of its parts, and in which less metal and less work is required for its construction than for the construction of a similar die stock and tap-wrench in two separate tools, as heretofore commonly practiced.

Each combined die-stock and tap-wrench shown by Figs. 1 and 2 of the aforesaid drawings has three oblong rectangular sockets, F, of different sizes, for receiving the three different sizes of similarly-shaped shanks C on the screw-taps represented by Figs. 3, 4, 5, 6, 7, 8, 9, 10, and 11; and we generally make our combined die-stock and tap-wrench with either one, two, three, or more socket or sockets of either a square, oblong, six-sided, or other form required to fit the shank or shanks of whatever screw-tap or screw-taps shall be made for sale and use with such combined die-stock and tap-wrench.

What we claim as our invention, and desire to secure by Letters Patent, is—

As an article of manufacture, a screw-cutting die-stock having two handles and provided with a socket or sockets for the shank or shanks of a screw-tap or screw-taps, substantially as herein described.

WM. HOLROYD.
JAMES HOLROYD.

Witnesses:
J. CRAMER, 2d,
AUSTIN F. PARK.