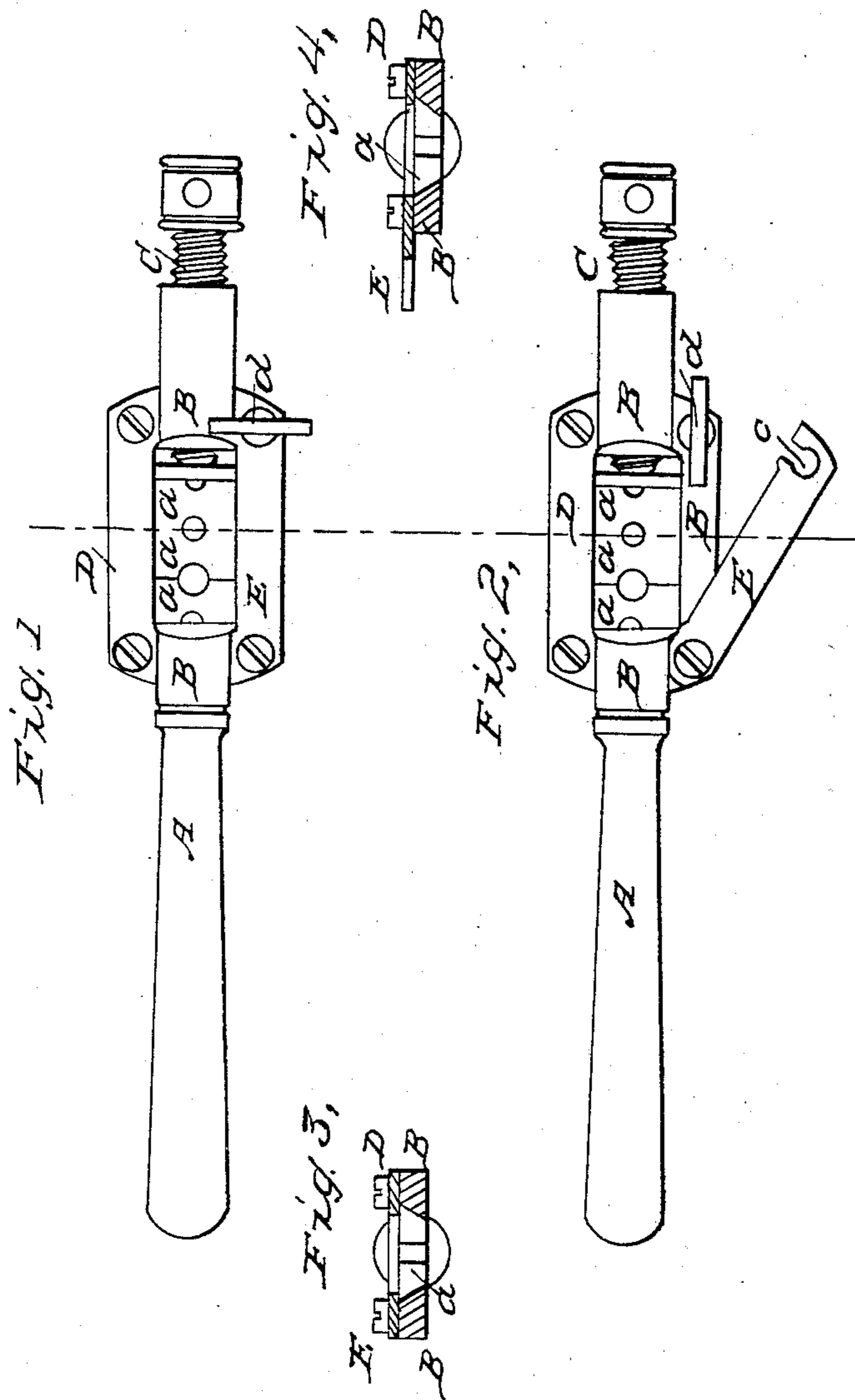


J. SMITH.
Screw Plate.

No. 45,459.

Patented Dec. 13, 1864.



WITNESSES:
Eufus Sanford
Chas. V. Jacobs

INVENTOR:
James Smith

UNITED STATES PATENT OFFICE.

JAMES SMITH, OF NEW HAVEN, CONNECTICUT, ASSIGNOR TO MAJOR SMITH AND JAMES H. SMITH, OF SAME PLACE.

IMPROVED SCREW-PLATE.

Specification forming part of Letters Patent No. 45,459, dated December 13, 1864.

To all whom it may concern :

Be it known that I, JAMES SMITH, of New Haven, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Screw-Plates; and I do hereby declare the following to be a full, clear, and exact description of the same, when taken in connection with the accompanying drawings and the letters of reference marked thereon, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a top view with the dies as held in their seat for use; Fig. 2, a like view, the plate open as to remove or insert the dies; and in Figs. 4 and 5, cross sections of each.

Similar letters in the several figures indicate corresponding parts.

My invention relates to an improvement in screw-plates used for holding and turning dies to cut screws; and it consists in a mechanism for securing the dies within the plate and affording a ready and convenient manner of changing or removing the dies.

To enable others skilled in the art to make and use my invention, I will proceed to fully describe its construction and operation.

I represents a single handle plate, such a one as is used for cutting small screws.

A is the handle; B, the plate; C, the screw for opening or closing the dies and operates

as in common screw-plates. The said screw C in larger plates I make extended to form a handle corresponding to the handle A, as is usual in large screw-plates. Each side of the plate B, as seen in Figs. 3 and 4, is beveled, forming a V-shaped seat for the dies *a*. On one side of the plate I fix a lip, D, projecting over the dies to hold them in place upon that side, as seen in Figs. 3 and 4. Upon the opposite side of the plate I adjust a similar lip, E, so as to swing from the plate, as in Figs. 2 and 4. When in this position, the dies *a* may be removed from or placed in the plate, and when set in the plate, as seen in Fig. 4, return the lip E onto the plate, as see Figs. 1 and 3, a notch, *c*, in its end will permit it to pass under the thumb-screw *d*, as in Fig. 1, then turn the said thumb-screw, as in Fig. 1, will press down upon the lip E to securely hold it in place, which also holds the dies in their seat.

Having therefore fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent, is—

The herein-described screw-plate, constructed and operating substantially as and for the purpose specified.

JAMES SMITH.

Witnesses:

JOHN E. EARLE,
RUFUS SANFORD.