A. A. Wilder.
Copying Press.

No. 7978. Patented Mar. 11. 1851.

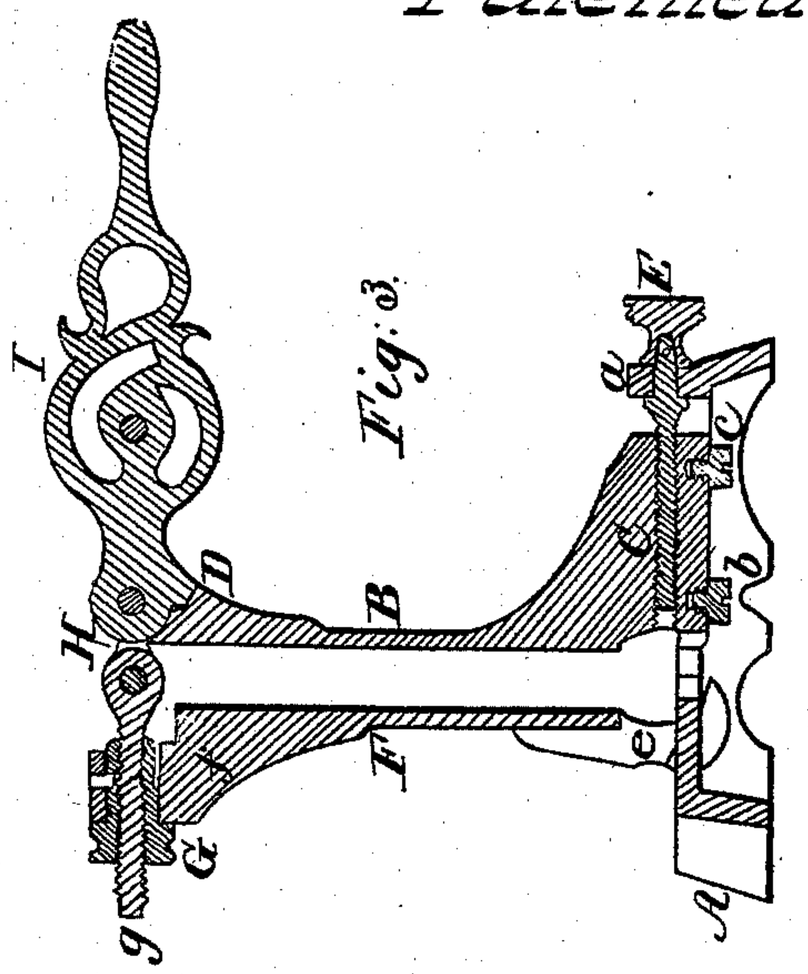

Fig. 3.

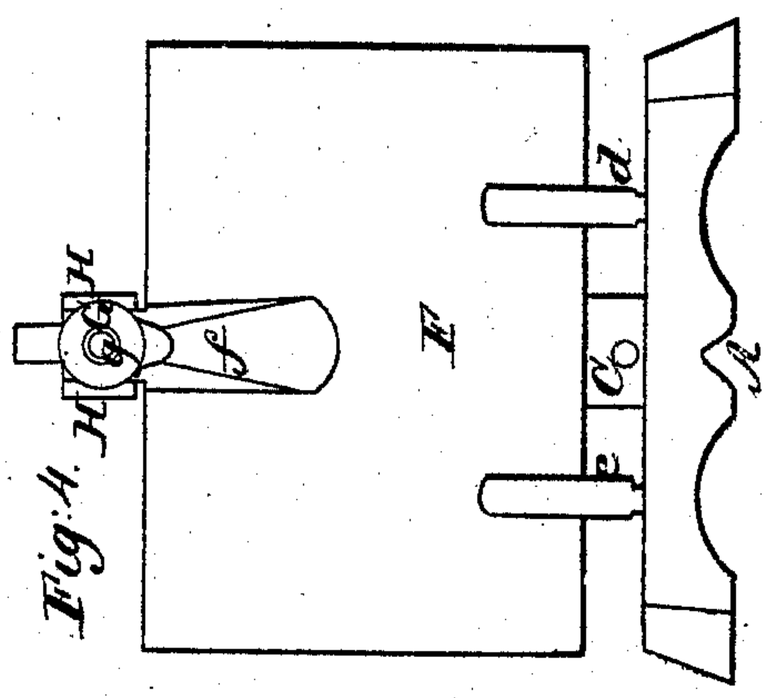

Fig. 4.

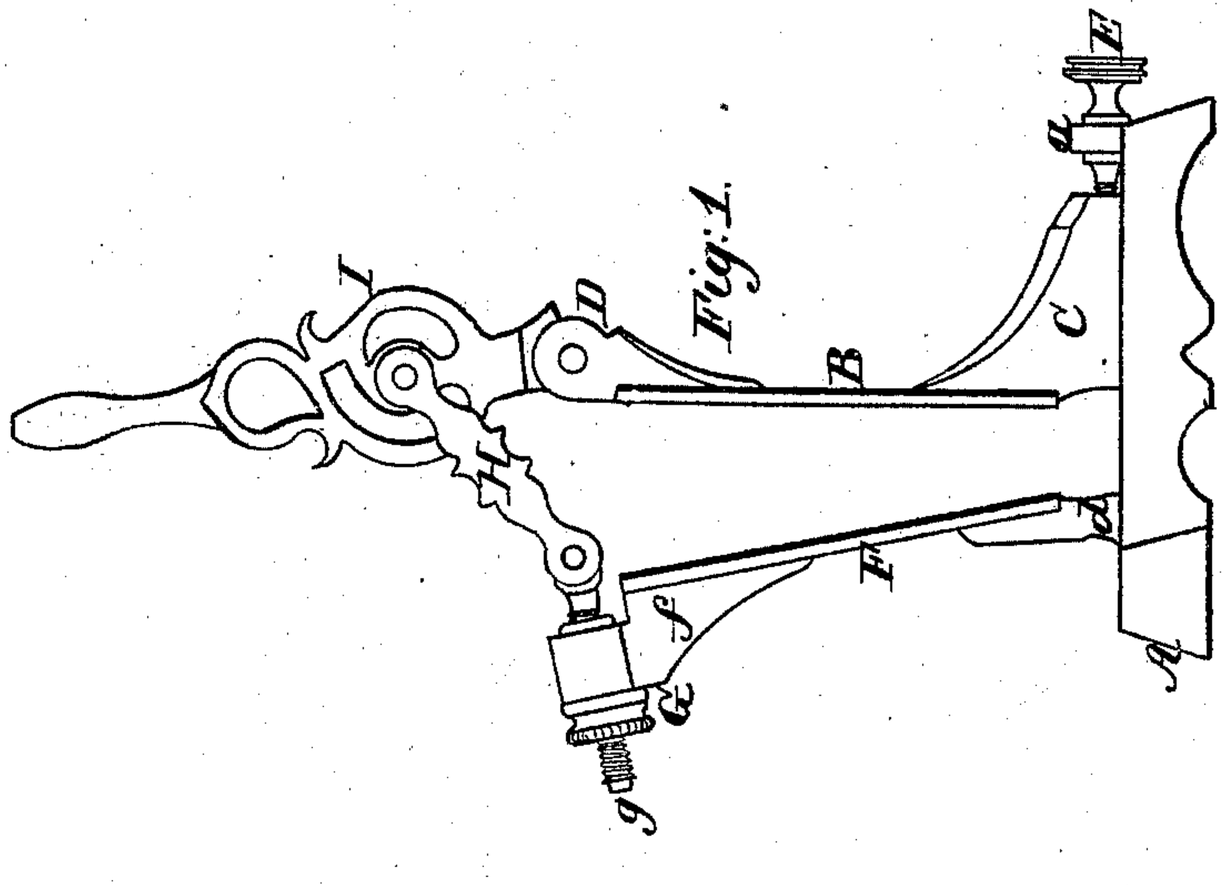

Fig. 1.

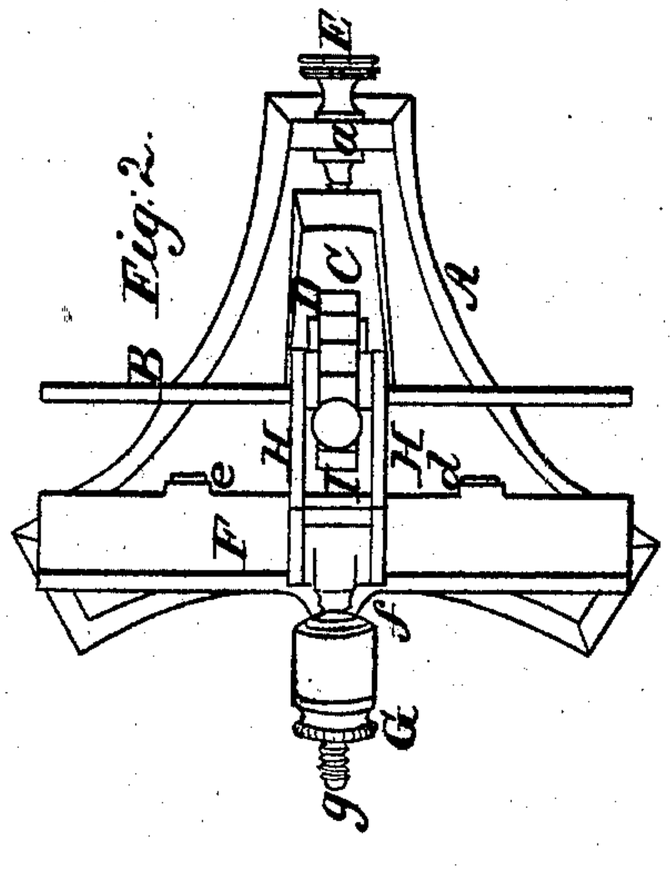

Fig. 2.

UNITED STATES PATENT OFFICE.

A. A. WILDER, OF DETROIT, MICHIGAN.

COPYING-PRESS.

Specification of Letters Patent No. 7,978, dated March 11, 1851.

To all whom it may concern:

Be it known that I, A. A. WILDER, of Detroit, in the county of Wayne and State of Michigan, have invented new and useful Improvements in Presses for Copying and for other Purposes; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a side elevation showing the press open and handle erect. Fig. 2 is a plan of the same. Fig. 3 is a vertical section showing the press closed and handle horizontal. Fig. 4 is an end elevation seen from the back of the press when closed.

The same letters of reference indicate the same parts in each of the several figures.

The nature of my invention consists in the use of two flat pressing plates, one of which, being vertical, works on a slide and has an adjusting screw for regulating the degree of pressure or width between the plates, according to the thickness or the nature of the material being pressed, and the second plate being fitted so in the table or bed plate that it may have a movement so as to open like an hinge, and it possesses, also, an adjusting screw or box through which the screw pin passes and which is attached by link rods to the handle or lever having its fulcrum on the opposite plate; the loose or hinge-hung plate being opened and shut by the motion, up or down, of the lever handle which produces the pressure.

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

A, is a bottom or bed plate, having slots through its top as will be hereinafter described, and at one of its angles or ends, a projecting piece *a*.

B, is a vertical pressing plate, with projecting pieces C, D.: the projecting part C, forms a slide which travels in a slot through the face of the bottom plate A, and is secured at the required set by set screws *b*, *c*, biting at their edge on strips between which C, slides.

E, is a finger screw collared and working through the piece *a*, it also works through a female screw in C, and is used for moving the plate B.

F, is a pressing plate similar to B, but fitted at its bottom parts *d*, *e*, loose in slots or openings through the top of the plate A, in order to admit of the plate F, moving in the manner of an hinge. Through the projecting part *f*, a screwed pin *g*, passes, worked by a set nut G.

H, H, are link rods attached to the pin *g* and an handle lever I, which has its fulcrum at D, and by its motion moves the pressing plate F.

The operation is as follows. The book, letter, or other substance to be copied or pressed, is placed between the plates B, F, the necessary width for inserting them being procured by lifting the handle I, which connected by link rods H, H, to the pin *g*, as described, causes the plate F, to be thrown back, and it is closed again or worked when required to press, by forcing down, to a horizontal position, the handle I, which draws toward B, the plate F. The screw pin E by being turned with the fingers causes the plate B, to slide to or from the second plate F, the set screws *b*, *c*, being loosened to admit of the working of the slide C and fastened when the proper set is procured, thus the width between the plates B, F, is altered to suit circumstances, and a further similar adjustment is procured by the set nut G, working on the pin *g*, which by the combination with the set pin E, affords a different width, if required, between the top and bottom of the plates B, F, which may be used for equalizing the pressure on the entire surface that the difference of leverage in the plate F, might affect and for giving an additional pressure either at the top or bottom, or at both, as may be required.

The movement produced by the handle I, working on its fulcrum at D, from its position and mode of attachment, is quick at first and gradually becomes slower and more powerful as the handle assumes a horizontal position, which is the time when most pressure is required, thereby offering a considerable advantage over the ordinary screw press, nor requiring to be secured or fastened to a table or bench, on which, from its mode of pressing it may stand loose, and be moved from place to place as desired; the handle I, by inclining, vertically, a little backward, always keeps the press ready for use, which combined advantages, as described, constitute, a simple, efficacious and convenient form of press.

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

The use of a lever handle I, having its fulcrum on the pressing plate B attached to the opposite plate F, by links H, H, as shown, working in the manner described, in combination with the adjusting arrangements C, E G, *g*, for the purposes expressed, and operating together, as shown, or in any substantially similar manner.

A. A. WILDER.

Witnesses:
O. D. MUNN,
S. H. WALES.