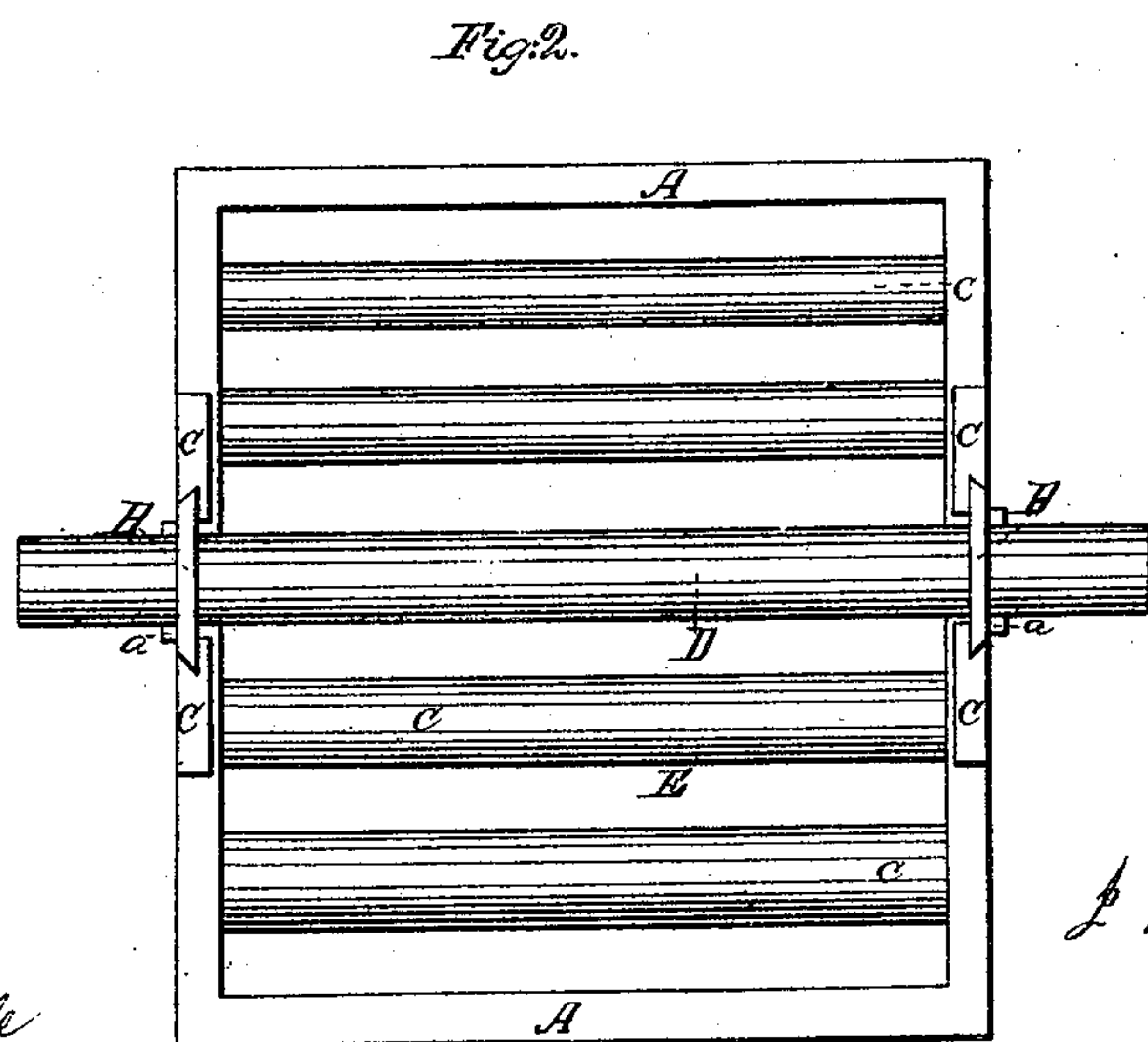
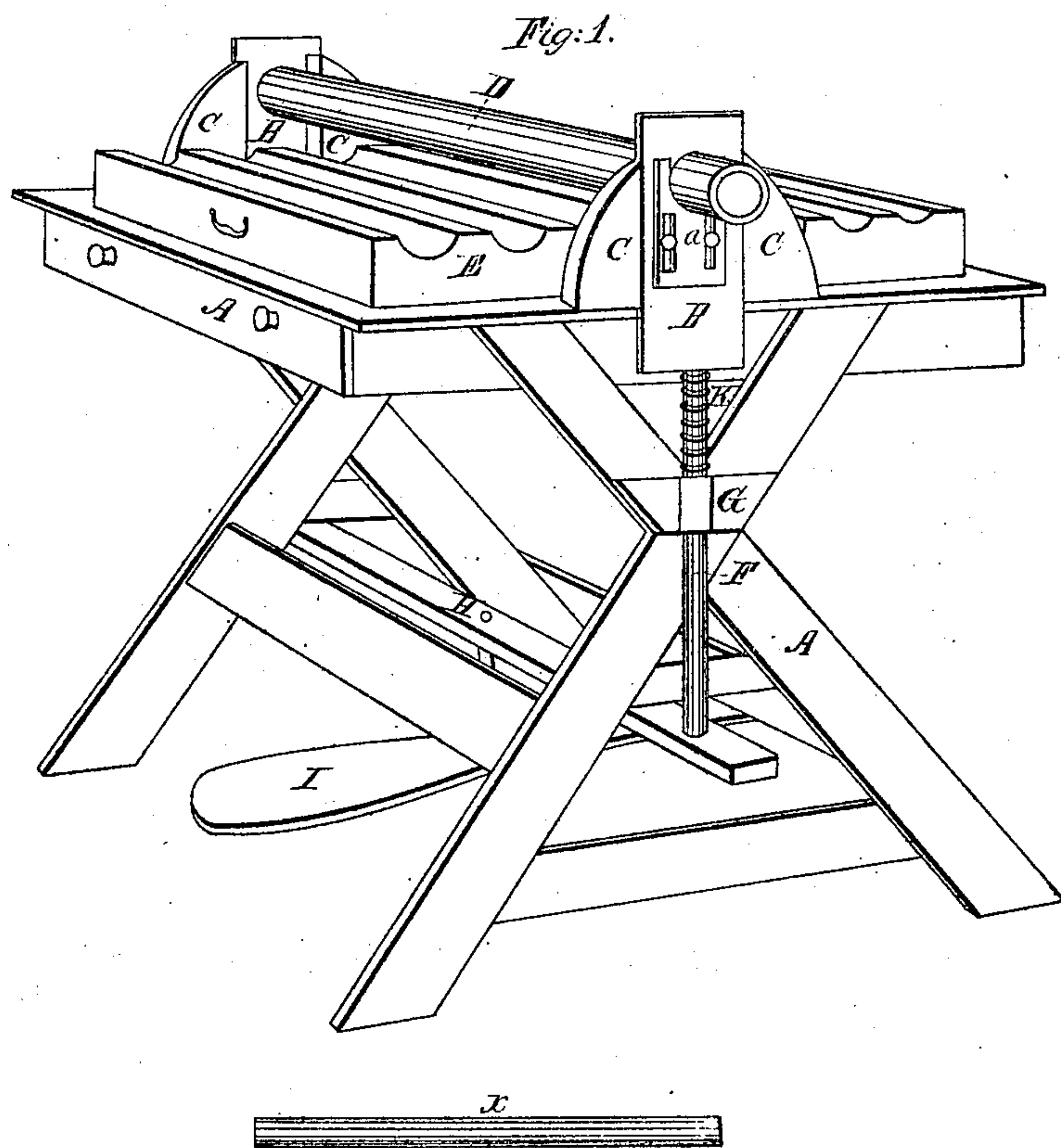


J.K. Max.
Mach. for Moulding Backs of Books.
Nº 62,767. *Patented Mar. 12, 1867.*



Witnesses:

Edward H. Hyde
John. Jones

Inventor:
J. Kennedy Max
by his atty.
L. B. Gardner

United States Patent Office.

J. KENNEDY MAX, OF SPRINGFIELD, MASSACHUSETTS.

Letters Patent No. 62,767, dated March 12, 1867.

MACHINE FOR MOULDING THE BACKS OF BOOKS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, J. KENNEDY MAX, of Springfield, Hampden county, Commonwealth of Massachusetts, have invented a new and useful improved Moulding Machine for Book-Backs; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon. In the drawings—

Figure 1 represents a perspective view of my invention; and

Figure 2, a plan view of the same.

This invention consists of a mechanical device for moulding the curve of the back, in the binding of books, and forming it of the proper size.

My invention consists of a device for moulding the backs of books, giving them the proper curve and size.

In construction, I form my machine of a table, A, to which a press is attached in the following manner: On each side of the table, at the top, is placed a sliding device, consisting of the slides B B working in the guides C C C C. Through these slides, crossing the top of the table at a suitable distance above it, is passed a cylinder, D; various sizes of cylinders can be used here, the holes in the slides B B, through which the cylinder passes, being made adjustable by means of the slotted pieces *a a*. On the top of the table is placed a sliding-bed, E, which has various-sized grooves, *c c c*, sunk in it. These grooves are made parallel to the cylinder D, which is meant to be pressed down in any one of them, forming the curve of the back between, and forming it of the size which that cylinder and groove determine. At the lower end of each of the slides B B is attached a rod, F F, which rods pass through guides G G fastened to the frame of the table. The rods are attached at their other ends to the bar H, which is worked vertically by the treadle I. Between the guides G G and the lower ends of the slides B B, coiled around the rods F F, are spiral springs K K, which throw the slides with the cylinder up again, after they have been pressed down by the treadle, and the pressure has been relieved. Steam is passed through the cylinder D for the purpose of heating it, so as to form the mould more perfectly. When this, by reason of the situation of the machine or the absence of steam, is impossible, the cylinder can be heated by means of iron rods, which are heated and put into it. One of these rods is shown in the fig. 1, marked X.

This device forms a very neat and convenient press for the purpose described, and is especially useful in the easy manner by which different sizes of moulds may be used without much difficulty in rearranging the press; all that is required being to shift the bed E, and sometimes to change the cylinder D. The arrangement of the spring treadle in throwing the cylinder up, after a pressure is made, also adds greatly to its completeness.

Now, having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The adjustable cylinder D, constructed substantially as and for the purpose specified.
2. The use of steam or the heated rods X, for the purpose of heating the same, substantially as described.
3. The adjustable bed E, operating substantially as described.
4. The combination of the cylinder D, bed E, slides B B, and treadle I, having the rods F F, and springs K K, with the table A, operating substantially as and for the purpose set forth.

JOHN KENNEDY MAX.

Witnesses:

EDWARD H. HYDE,

J. B. GARDINER.