

N. D. White,

Making Wooden Boxes.

N^o 7,829.

Patented Dec. 10, 1850.

Fig. 3.

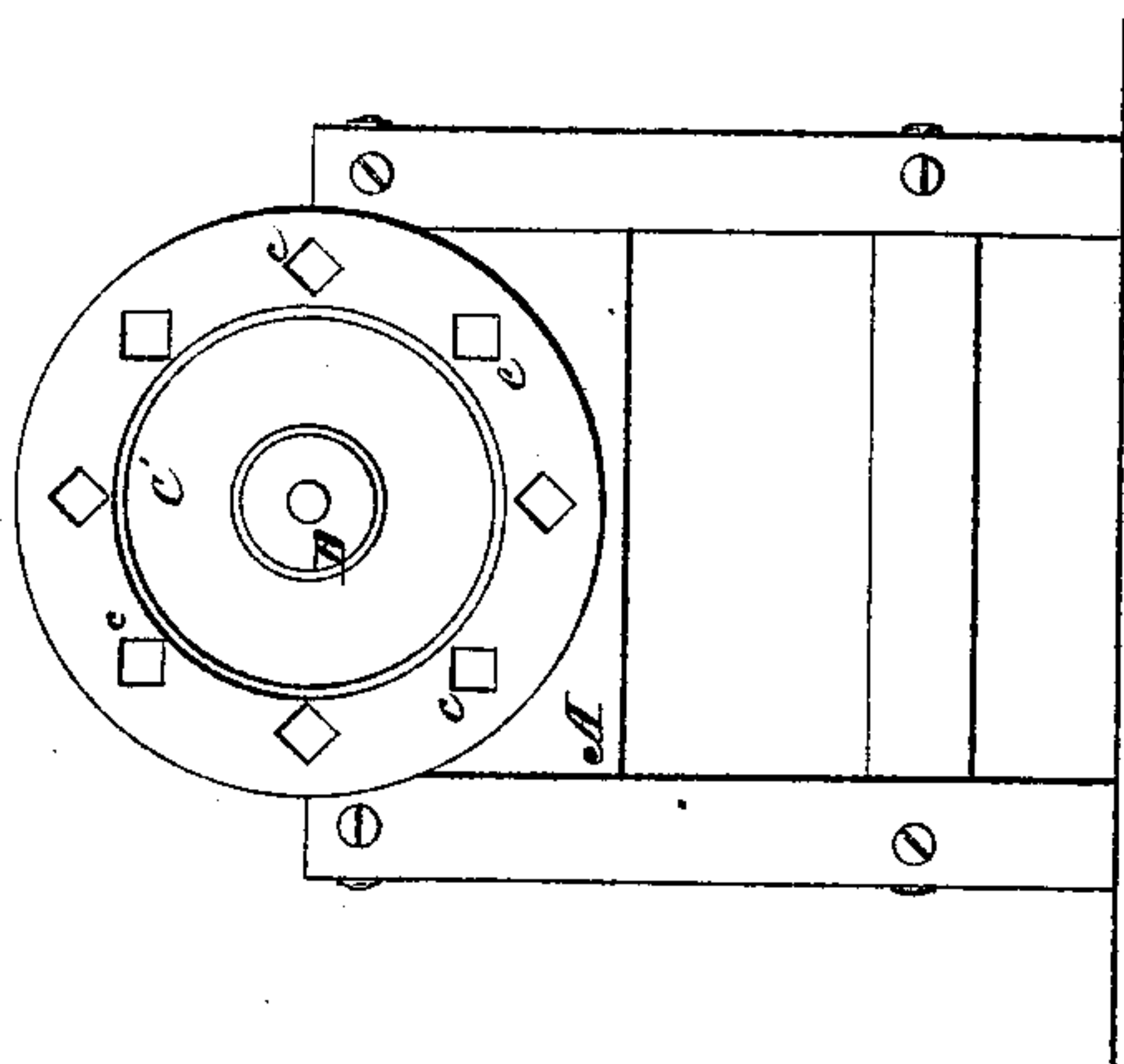


Fig. 4.

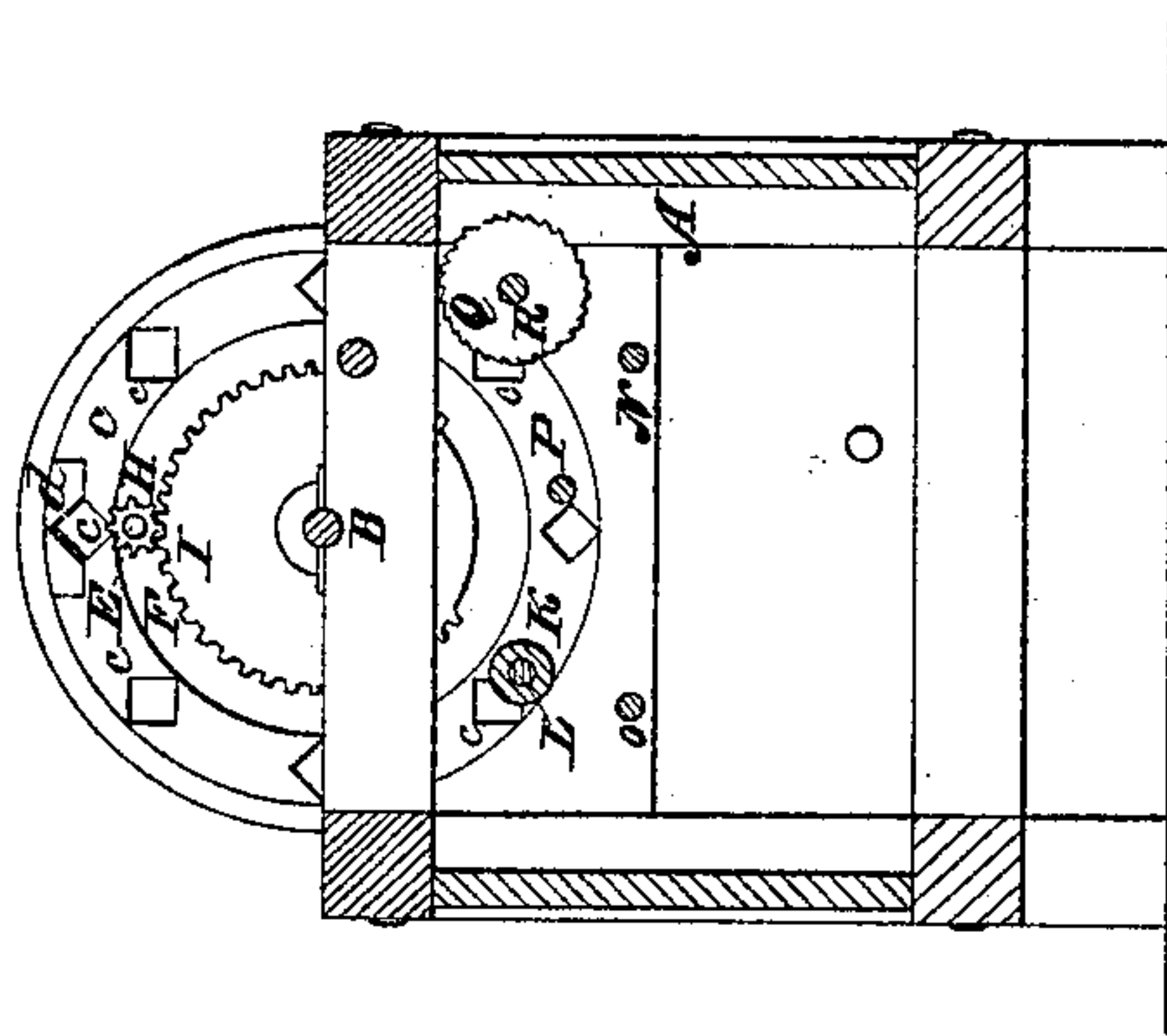


Fig. 1.

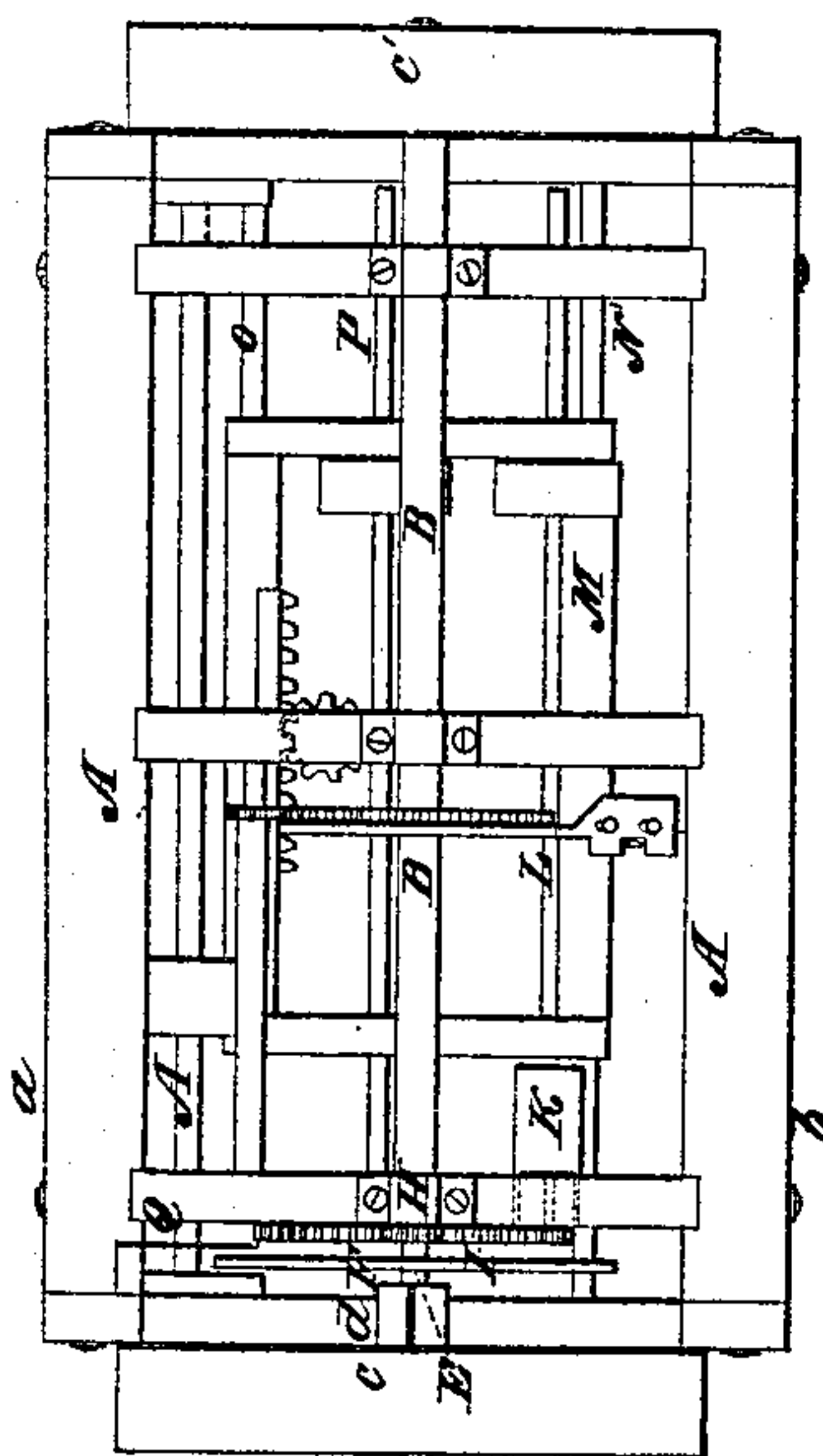
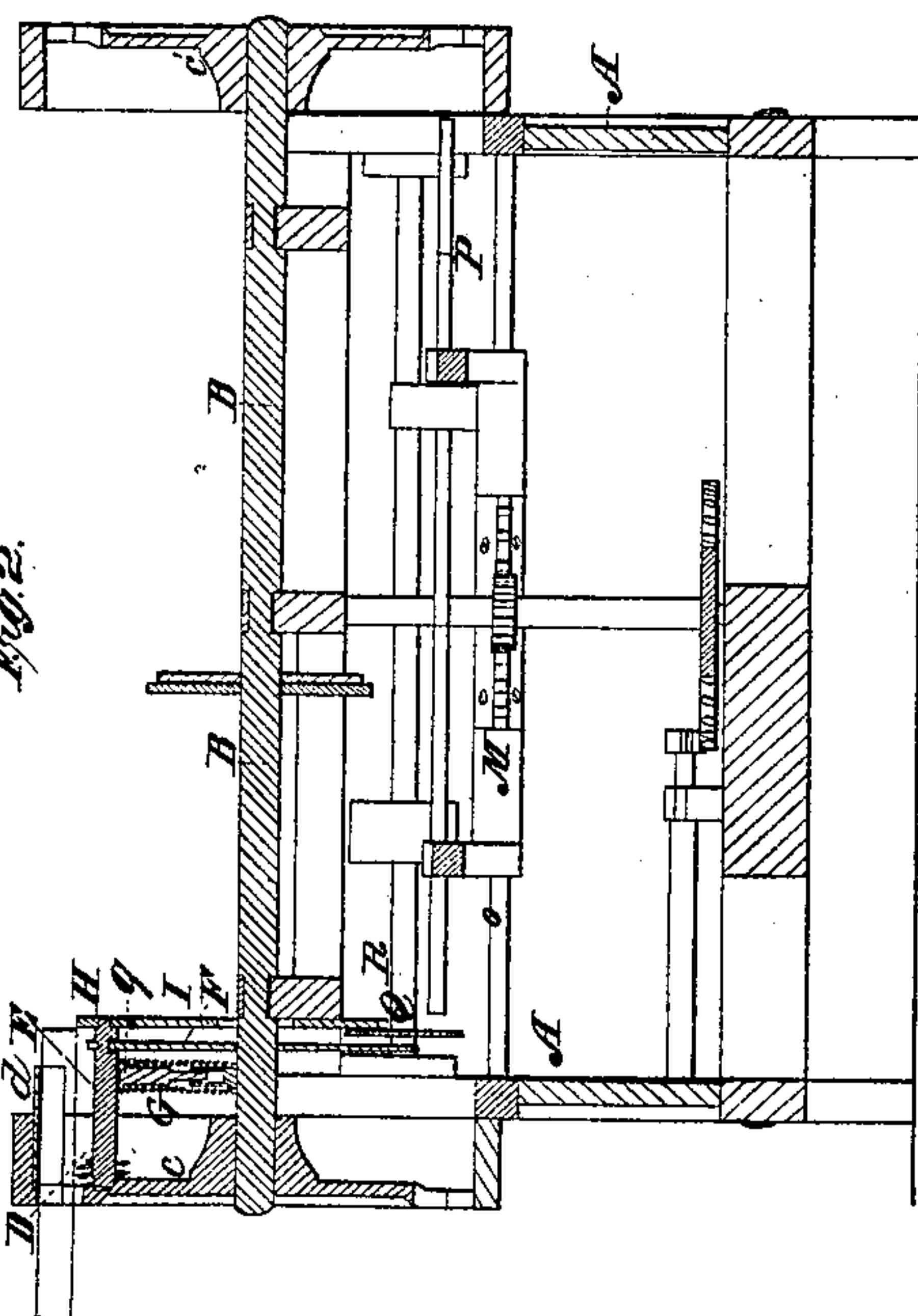


Fig. 2.



UNITED STATES PATENT OFFICE.

NELSON D. WHITE, OF WINCHENDON, MASSACHUSETTS.

MACHINE FOR MAKING PILL-BOXES.

Specification of Letters Patent No. 7,829, dated December 10, 1850.

To all whom it may concern:

Be it known that I, NELSON D. WHITE, of Winchendon, in the county of Worcester and State of Massachusetts, have invented
5 new and useful Improvements in Machinery for Making Pill-Boxes or Match-Boxes of Wood or other Suitable Material; and I do hereby declare that the same is fully described and represented in the following
10 specification and accompanying drawings, letters, figures, and references thereof.

Of the said drawings Figure 1, represents a top view of my said improved machine for making pill boxes. Fig. 2, is a vertical and
15 central section of it. Fig. 3, is an end view. Fig. 4, is a transverse and vertical section of it, taken on the line *a, b*, in Fig. 1, and looking toward the nearest rotating block holder frame.

20 In the said drawings A, represents the main frame for supporting the operative parts of the machine. The said frame carries upon its top surface a long horizontal shaft B, upon each end of which is to be
25 fitted a wheel, or block holding frame C or C'. This rotating wheel is to have a series of square orifices or passages *c, c, c*, made through it in the positions as seen in the end view of the machine, to each of which
30 orifices a saddle or bearer *d*, is to be connected as seen in Figs. 2, and 4, the said saddle or bearer being made to project from the inner surface of the wheel. Only one
35 of these saddles or bearers is represented in the drawing, it being understood that the wheel is to be provided with any suitable number of them, according to the number of orifices for the reception of the pieces of wood from which the boxes are to be made.

40 One of the said pieces of wood supposed to be square in its section, is passed through each orifice, and is forced or held against the same by an endless screw or worm D, placed upon a shaft E, arranged with re-
45 spect to the saddle as seen in the drawings.

The said shaft passes at its other end through a circular bearing plate F, fixed upon the shaft B. It is supported by and rotates within said bearing plate, and is
50 pressed in a direction toward the saddle by means of a spring G, one end of which is suitably connected with and supported by the shaft B, while the other end is made to press against the shaft E, by means of a
55 bearer *g*, and so as to cause the endless screw or worm D, to bear firmly against a piece

of wood resting in the saddle, the said piece of wood being exhibited in Fig. 2, by blue lines.

On the inner end of the shaft B, a toothed
60 pinion H, is fastened, which gears into a stationary toothed wheel or gear I, made fast to the framework. Consequently when the shaft B, is rotated, the block holder frame will be put in rotation with it, and will carry
65 around the shaft E, which itself will be rotated in the mean time by reason of the action of its pinion gear, upon the stationary gear wheel before described.

The rotation of the shaft E, and the worm
70 gear or endless screw thereof, causes the piece of wood against which said worm bears to be moved in the saddle, in a direction toward the end of the machine, or in other words feeds it far enough forward
75 for the operation of the cutting tool K, which is to be brought against it for the purpose of forming one portion of a box on it. The said cutting tool K, is made in the usual manner in which said tools are com-
80 monly made, and is fixed to the end of a mandrel or shaft L, which is supported by a suitable sliding carriage M, which rests and moves upon two horizontal rods N, O, and not only carries such shaft but another
85 one P, or any other suitable number of them. Generally speaking the said sliding carriage may be made to operate in connection with two rotating block holding frames C, C', ar-
90 ranged as seen in the drawings; the shafts of said carriage being provided with cutting tools at both ends of each respectively. A suitable intermittent circular motion is to be imparted to the shaft B, so as to enable
95 the blocks of the block holders to be regularly and successively moved into suitable positions to enable the cutting tools to be moved up against them, and to so operate upon them as to form either a box or a box
100 cover on their ends according to the formation of the tools. The sliding carriage is to be moved first toward one block holder, and next toward the other. In such an operation of the carriage as well as in the construction and operation of its cutting tools I lay no
105 claim to invention.

Within the path of motion of the series of sticks of wood projecting through the block holder, I so place a circular saw Q that the said sticks during the rotation of the
110 block holder, and after the cutting tools have operated upon them, may be success-

ively carried in contact with it, and have such portions of them as are suitable to the formation of boxes separated or cut off by said saw. The shaft of the saw which is
5 seen at R, is placed without the orbit of revolution of the sticks, while the saw projects within the orbit far enough to pass entirely through each of them transversely during the time it (the stick) is passing in contact
10 with the saw. Any suitable means may be employed to put the saw in revolution.

What I claim as my invention is—

1. The contrivance for supporting the stick, and feeding each stick forward to-
15 ward the cutters, the same consisting of the saddle and orifice, (applied to the rotary block holder,) the endless screw D, the shaft E, the spring G, the bearing plate g, fixed to the shaft B, the pinion H, and the station-

ary gear wheel I; the whole being applied 20 and made to operate together substantially, in the manner as above set forth.

2. I do not claim the employment of a circular saw, for the purpose of separating portions of the sticks, but what I claim as 25 my invention or improvement is the combination of said saw, with the rotating series of sticks, or their rotating holding frame substantially, in the manner, and so that they shall be successively operated upon by it as 30 specified.

In testimony whereof I have hereto set my signature this seventh day of October A. D. 1850.

NELSON D. WHITE.

Witnesses:

B. O. TYLER,
M. D. WHITAKER.