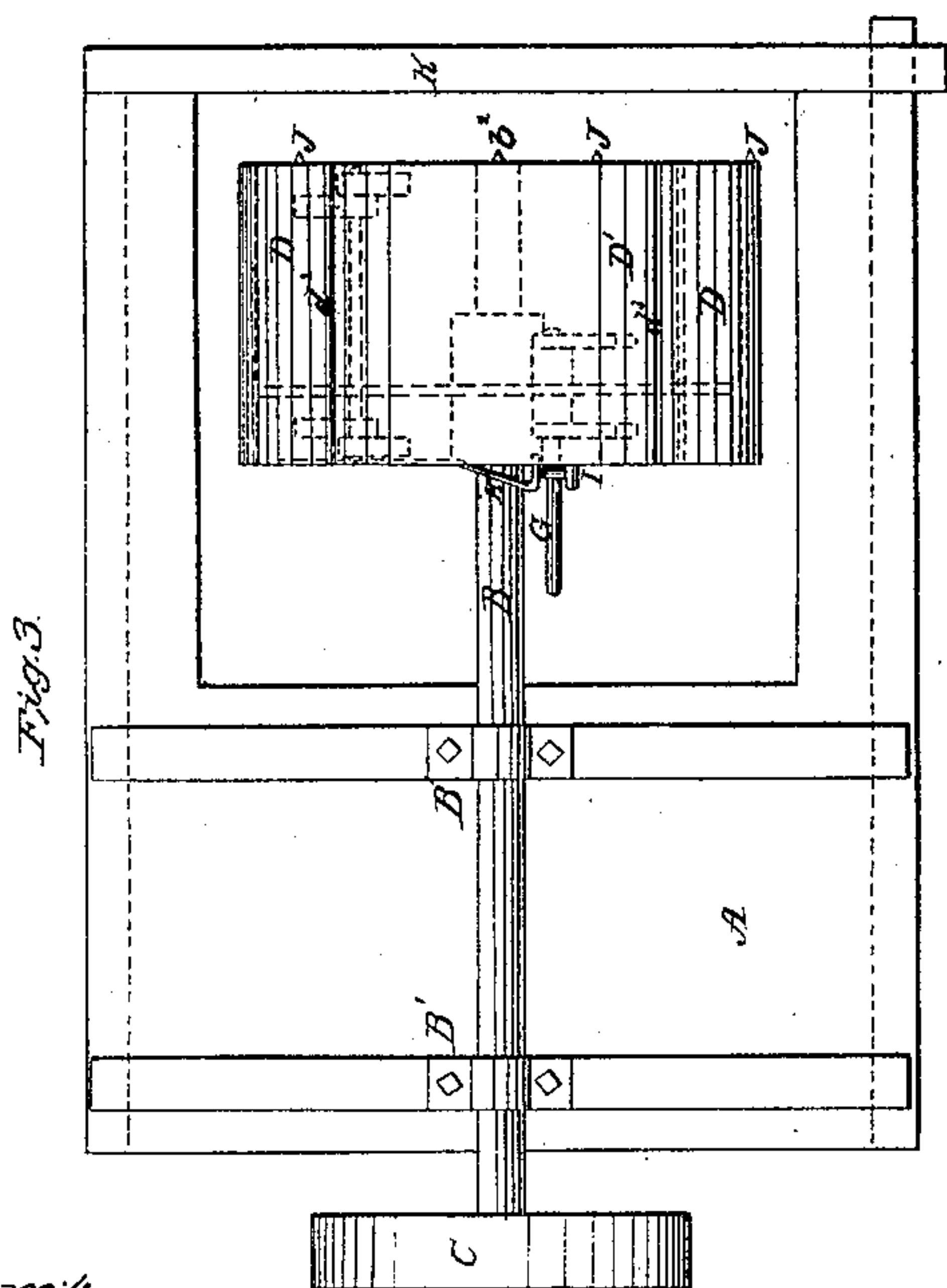
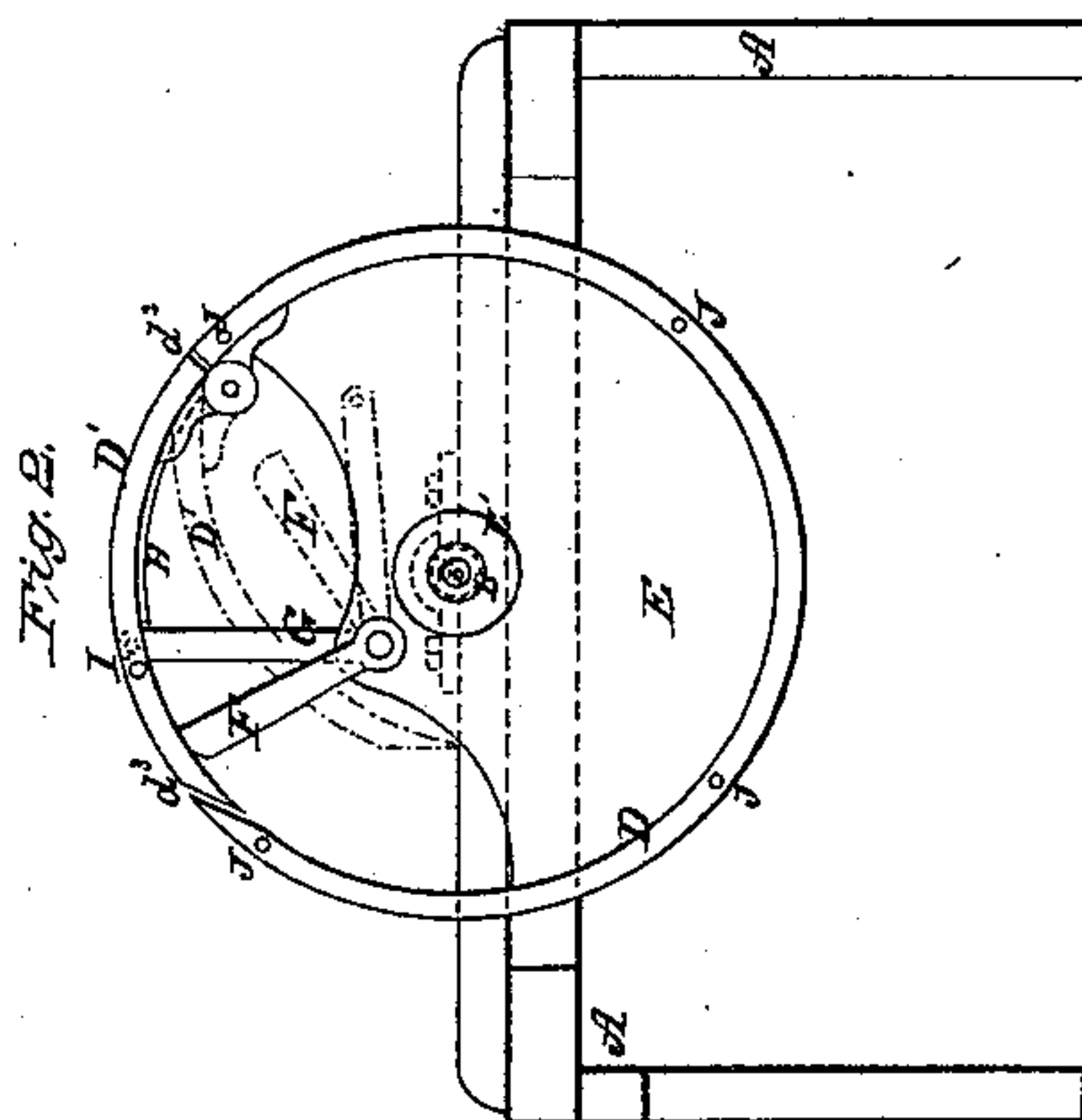


MACHINE FOR MAKING CHEESE BOXES.

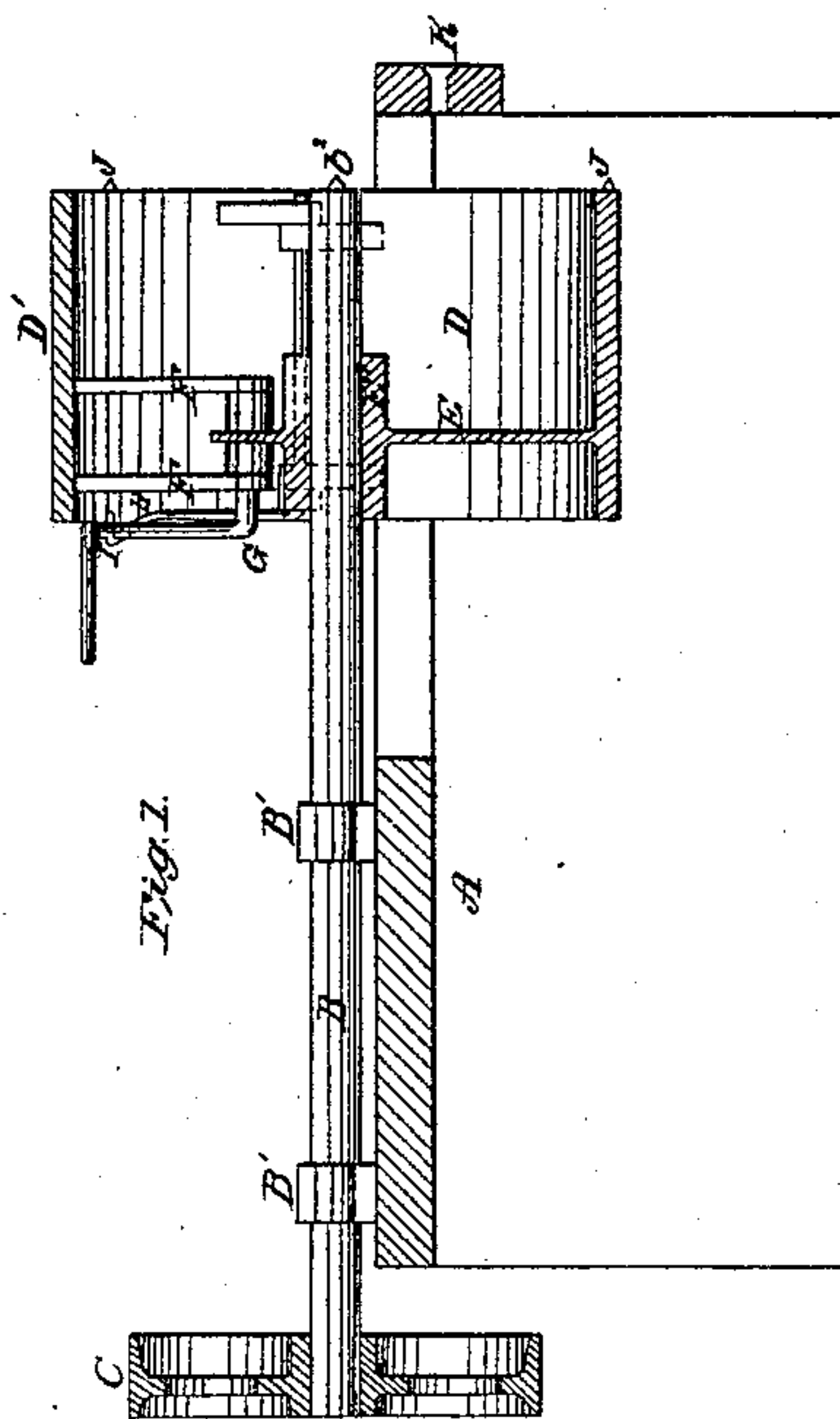
No. 62,844.

Patented Mar. 12, 1867.



Witnesses:

B. H. Muchley
P. Langwoorth



Inventor:

Chas. Hanover

United States Patent Office.

THOMAS HANVEY, OF ELMA, NEW YORK.

Letters Patent No. 62,844, dated March 12, 1867.

IMPROVEMENT IN MACHINES FOR MAKING CHEESE-BOXES.

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, THOMAS HANVEY, of the town of Elma, in the county of Erie, and State of New York, have invented a new and improved Forming Drum for bending, and holding for nailing, rims for cheese-boxes, measures, and the like; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure I is a longitudinal section.

Figure II is an end elevation.

Figure III is a plan view.

The nature of this invention relates to making a drum with a hinged section which will open inwardly from the periphery and relieve the strain of the rim upon the drum after it is nailed, so that the rim may be easily removed from the drum.

Letters of like name and kind refer to like parts in each of the figures.

A represents the frame which supports the drum and its operating parts; B represents the drum-shaft, which has two journal bearings upon the frame, as shown at B¹; C is a driving-pulley upon the same shaft; D is the drum, which is made of cast metal and supported upon the overhanging end of the shaft B; it is made of the proper diameter and depth to give the required size of box or measure. This drum has an internal web, E, and hub E¹, for connection with the shaft. The hinged section, which is the subject-matter of this invention, is shown at D¹. It is hinged to the major part of the drum, as shown at d², and the opposite contiguous ends are bevelled, as shown at d³. There are two lifting and bracing arms, F, which are connected with the crank-shaft G, and this crank-shaft is supported upon the web E, as shown. This crank and arms are for the purpose of lifting and supporting the hinged section in its position in the true circle of the drum. A movement of these arms is effected by a slight turn of the crank, and when turned to the position shown by the red lines F, in Fig. II, the hinged section will drop inwardly, as shown by the red lines D¹, Fig. II. H represents a spring, supported upon the drum, and I a pin which stops the movement of the crank in the proper place to support the hinged section in the true circle of the drum. The crank passes over the spring in going up, so that the crank will be held in position between the spring and pin. And when it is desirable to drop the hinged section the spring is compressed to allow the crank and hinged section to move to the position indicated by the red lines in Fig. II. There are small spurs, J, projecting from the edge of the drum in order to hold the head of the box or measure in place. The end of the shaft is also made pointed, as shown at b², which point enters the head.

Operation.

The end of the rim which is to form the body of a box or measure is in the first place clamped between the bevelled ends d³. The head of the box or measure is then put on, being supported by the spurs J, as aforesaid. A lever, K, which is hinged to the main frame at k¹, is then swung around to bear against the head. The drum is then caused to revolve, and the rim is thereby wound around the drum, the rim lapping on to the head. The lapping parts of the rim are then firmly nailed together, the nails clinching on the drum. The rim is also nailed to the head, and then this part of the box or measure is complete. But it would be difficult to slip it off from the drum if some provision was not made for that purpose. The hinged section D¹ remedies this difficulty. When the box or measure is nailed and ready to be removed from the drum, a movement of the crank and arms, as before mentioned, will allow the hinged section to drop inwardly and away from the rim, as shown by the red lines D¹. This relieves the adhesion between the rim and drum and allows the rim to be taken off easily.

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

The hinged section D¹, constructed and operating in the manner and for the purpose substantially as set forth.

THOS. HANVEY.

Witnesses:

B. H. MUEHLE,

F. A. LANGWORTHY.