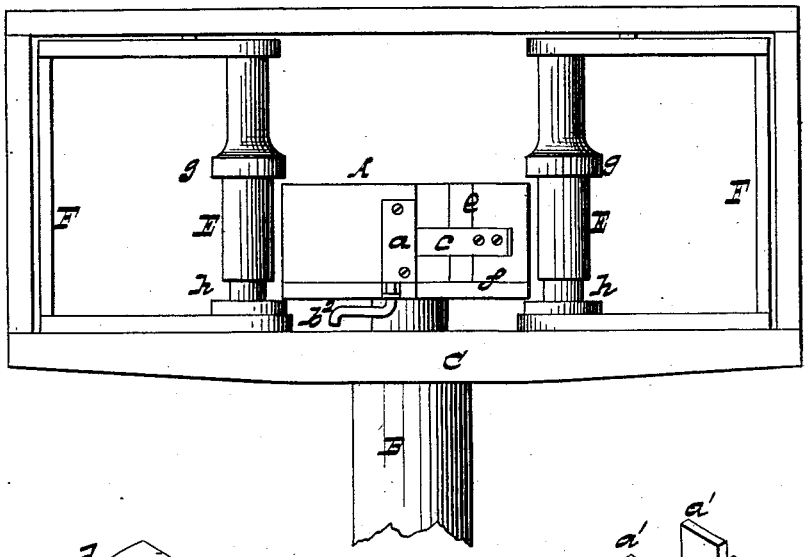
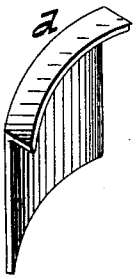
J. KISOR.

Machine for Making Boxes.

No. 163,788. Patented May 25, 1875.

Fig. 1.





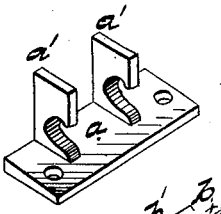
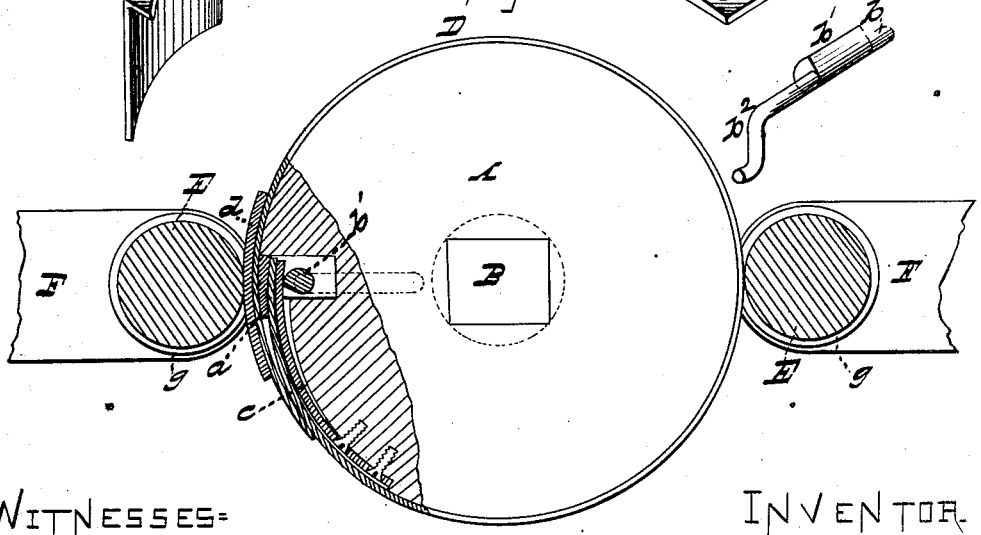


Fig. 2.



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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN MACHINES FOR MAKING BOXES.

Specification forming part of Letters Patent No. **163,788**, dated May 25, 1875; application filed April 10, 1875.

To all whom it may concern:

Be it known that I, JOHN KISOR, of Nevada, in the county of Wyandot and State of Ohio, have invented certain new and useful Improvements in Machines for Making Boxes; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawing, and to the letters of reference marked thereon, which form a part of this specification, in which—

Figure 1 is a side elevation of my improved machine for making cylindrical vessels; and Fig. 2 is a view thereof partly in section and plan, and detached views of mechanism thereof.

Corresponding parts in the several views of the two figures are designated by like letters.

This invention relates to a certain improvement in machines for making cylindrical vessels; and it consists of a cylinder or block having a clamp to receive and retain one end of a hoop or band, the other end being secured around the cylinder by a roller and an intermediate plate; and, secondly, of the combination with a cylinder, of peculiarly-constructed rollers journaled in frames pivoted within a third frame, or other convenient means of support, in proximity with the said cylinder, substantially as hereinafter more fully set forth.

In the annexed drawing, A refers to a cylinder or block suitably secured upon a pedestal or upright, B, upon which also is supported and revolves a frame, C, the purpose of which will be referred to hereinafter. A plate, *a*, fastened in the circumference of the cylinder A, is provided with hooked projections a' a', let into a chamber or recess in the cylinder to receive and form bearings for the axis *b* of the cam b^1, operated by the crank b^2. *c* is a spring let into the periphery of the cylinder, and conforming to its curvature, its free end extending in rear of the plate *a*, or in between the latter and the cam b^1, with which parts it forms a clamp by turning the cam-crank b^2 in the required direction for receiving and retaining one end of a hoop or band, D, the opposite end thereof being secured around the cylinder by one of the rollers of the pivoted frames, to be directly referred to, and an intermediate plate, *d*, as shown in Fig. 2. *e* is a vertical, and *f* a peripherical, metallic strip fastened to the cylinder A, against which to clinch the nails fastening the overlapping ends or portions of the body of the vessel being formed or made together, and the rim to the vessel, as in a half-bushel measure, &c. E E are two vertical rollers or cylinders journaled in frames F F, pivoted within the frame C, or other support, before alluded to. At or about the middle of the cylinders or roller E E are annular flanges *g g*, beneath which the intended bottom is held down upon the block or cylinder A, and at their lower ends are annular grooves *h h*, to receive and retain the rim in place until secured to the vessel.

The operation of my machine is as follows: Secure one end of the hoop or band D to the cylinder A by the clamping mechanism *a* b^1 b^2 *c*. Next insert one end of the intended body of the vessel—preferably made in one piece—between the hoop or band and cylinder, and bend the same, with the band, around the cylinder so as to cause its ends to overlap, the free end of the band being secured by the plate *d* and one of the rollers E E, confining the said body to the cylinder, after which the bottom and rim are adjusted to the said body. To hold the said bottom and rim in position while being secured to the body, the pivoted frames F F are so adjusted as to bring its rollers or cylinders E E in such a position with reference to said parts as to cause their flanges *g g* to occupy a position directly above and in contact with the bottom and their grooves *h h* to receive the rim. The respective parts of the vessel are now properly fastened together by nails, or otherwise, when the vessel is finished.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In combination with the cylinder A, having the clamps *a*, b^1, b^2, *c*, and band D, the plate *d*, cylinders or rollers E E, and frames C, F F, substantially as and for the purpose set forth.

2. In combination with the cylinder or or block A, the rollers or cylinders E E, having the annular flanges *g g*, and grooves *h h*, pivoted frames F F, and frame C, or other support for the latter, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

JOHN KISOR.

Witnesses:
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