

C. J. Haywood,

Making Sheet-Metal Vessels.

N^o 43,689.

Patented Aug. 2, 1864.

Fig 1

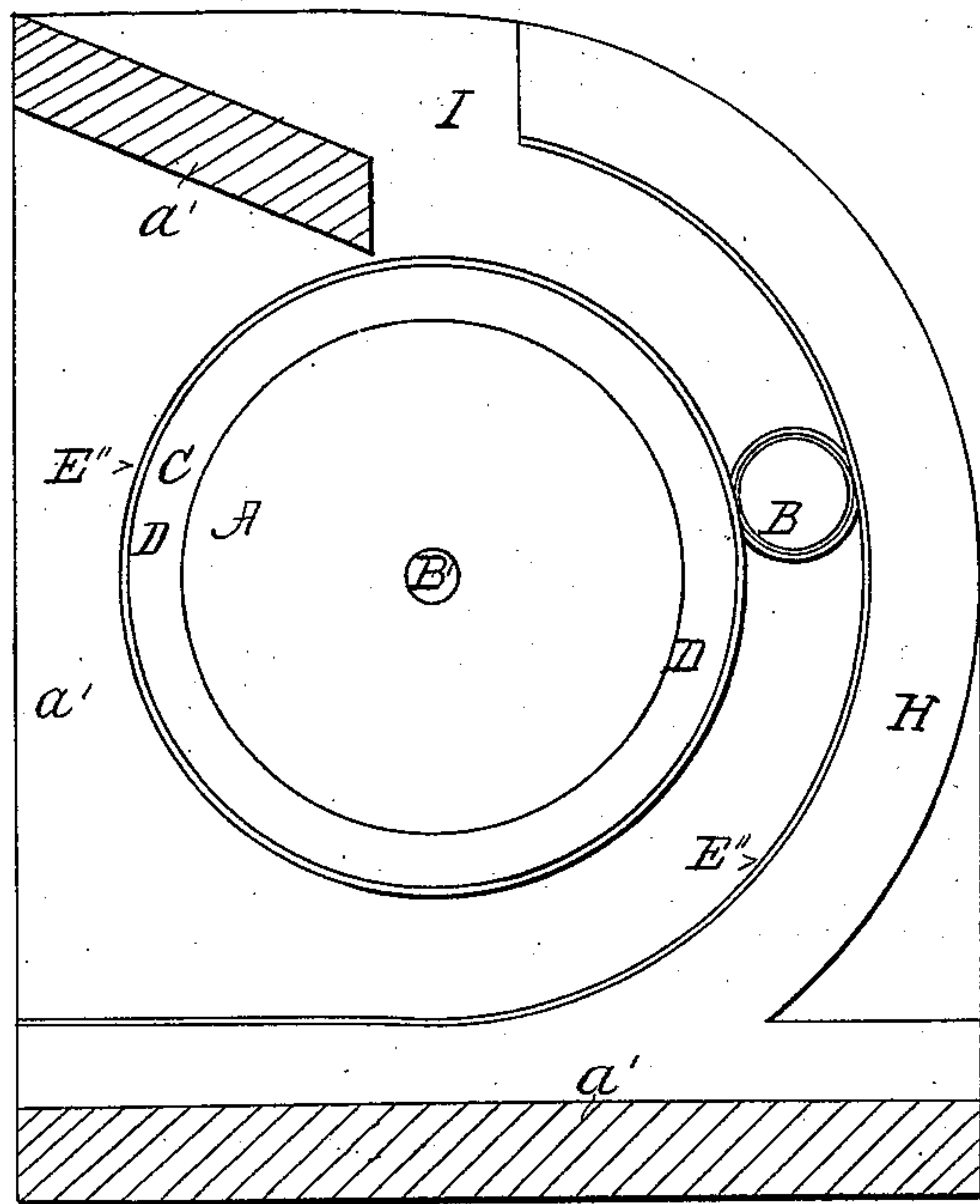
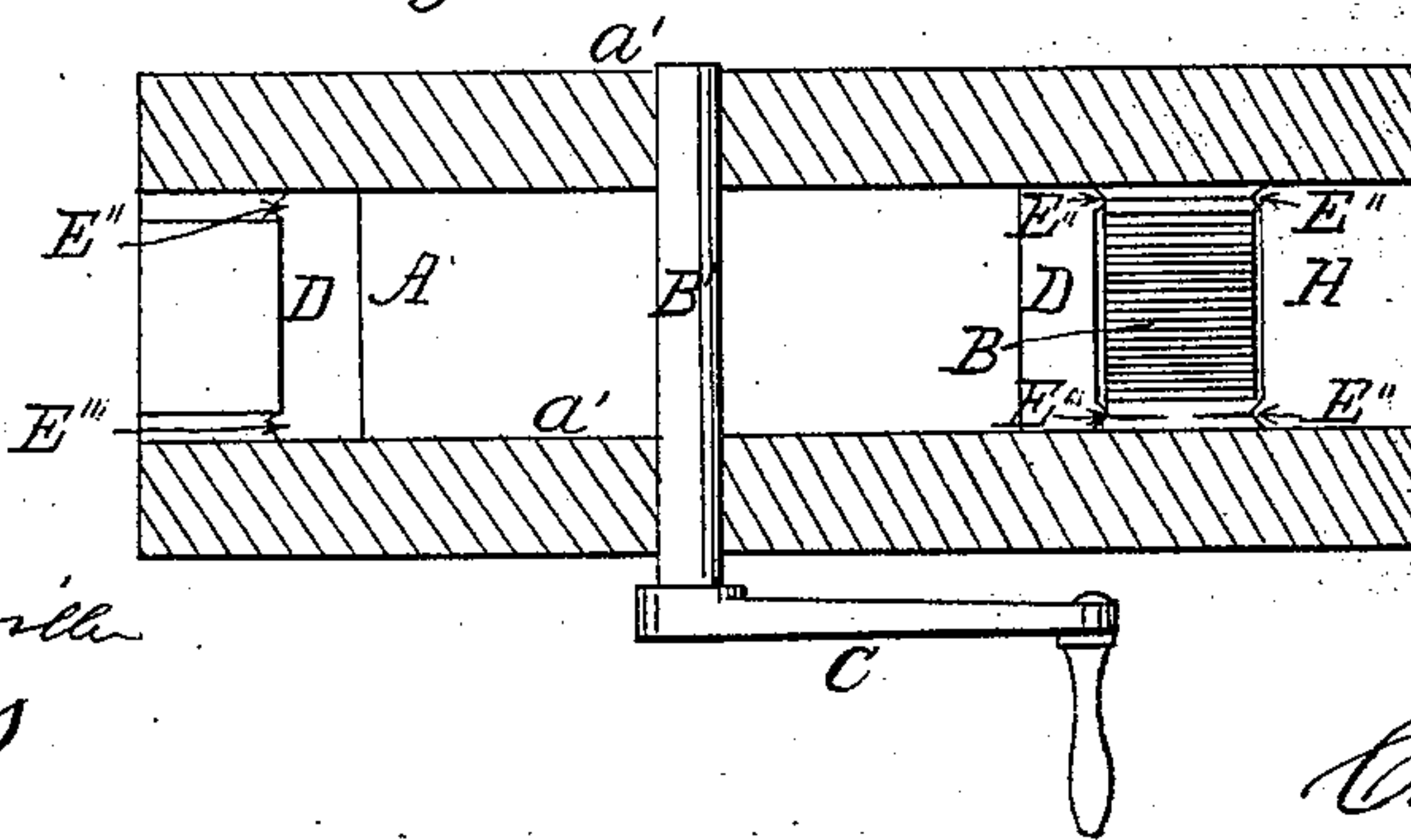


Fig 2



Witnesses:

*J. L. Mandville
J. W. Bays*

Inventor

Chas P Haywood

UNITED STATES PATENT OFFICE.

CHARLES J. HAYWOOD, OF DURHAM, CONNECTICUT, ASSIGNOR TO
MARIAM MANUFACTURING COMPANY.

IMPROVEMENT IN MAKING TIN BOXES.

Specification forming part of Letters Patent No. 43,689, dated August 2, 1864.

To all whom it may concern:

Be it known that I, CHAS. J. HAYWOOD, of Durham, county of Middlesex, and State of Connecticut, have invented certain new and useful additional improvements in process or method of producing a certain result in the manufacture of an old article of trade—viz., the fastening of the bottom or head onto a tin box, (as patented to me June 5, 1860, and are numbered 28,634;) and I do hereby declare that the said method or process is described and represented in the following specification and drawings in such a manner that I do fully believe will enable others skilled in the art to make and use the same.

I will proceed to describe the process and the mode of operation by referring to the drawings, in which the same letters indicate like parts in each of the figures.

This improvement relates to the making of tin boxes, &c., such as are used for rattle-boxes, medicine, spices, &c., without the necessity of soldering or other fastenings.

The nature of this improvement consists in the process or method of producing the same result by a rotary or cylindrical motion, (instead of a "sliding plate,") as shown and described in my former patent; or, in other words, the invention or improvement consists in the production of an old manufacture by means of a new process or mode of operation in the making of tin boxes, &c.

In the accompanying drawings, Figure 1 is a sectional side view. Fig. 2 is a perpendicular cross-section view.

a' is the frame-work or sides of the machine between which the mechanism is arranged.

A is a cylinder secured upon a shaft, B', which has its bearings in or upon the sides *a'*. Said cylinder is operated by a pulley or crank, C.

D represents a steel band (or other metal band) secured in a proper manner upon the

edge of the cylinder A, upon each edge of which is formed projecting "ridges" E.

H is a circular ridge-die, the dimensions of which are increased in proportion to the space required for the diameter of a given size box, B, designed to pass between the face of the cylinder A and the face of the die H. Said die also has ridges E formed on each side of its face. This die H may be adjusted to the action of the cylinder by wedges or set-screws in well-known use for such purposes. The space at I is designed for a funnel "into which the boxes B may be placed in any desirable number that the said funnel may be made to contain." I propose sometimes (if it shall be found to be advisable) a band of rubber or other suitable material on the face of the cylinder between the ridges for the purpose of producing additional friction to the box B as it is passing along through the channel between the cylinder A and the die H. Now, it will be seen that when the box B is placed or fed into the funnel I between the ridges E, both on the revolving cylinder A and the die H, it will be moved or revolved by the action of the cylinder over the said ridges E, thereby firmly and smoothly turning down the-flange edge of the head or bottom G not only of one box, but of as many as will conveniently follow one after the other, without any stoppage or change of motion. I have thus endeavored to show the nature and advantage of this improvement, so as to enable a person skilled to make and use the same.

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

The machine constructed and arranged, substantially as and for the purpose herein shown and described.

CHAS. J. HAYWOOD.

Witnesses:

F. G. MANDEVILLE,
J. W. BLISS.