

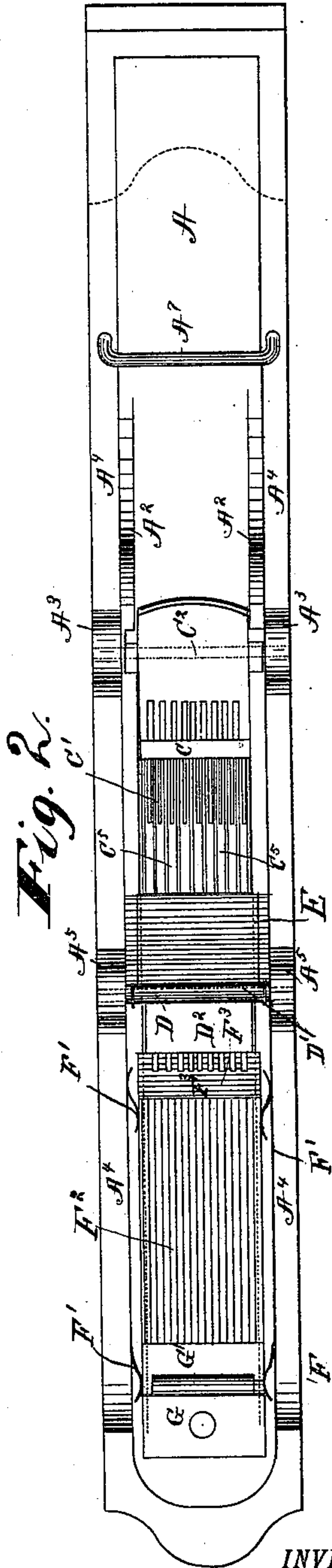
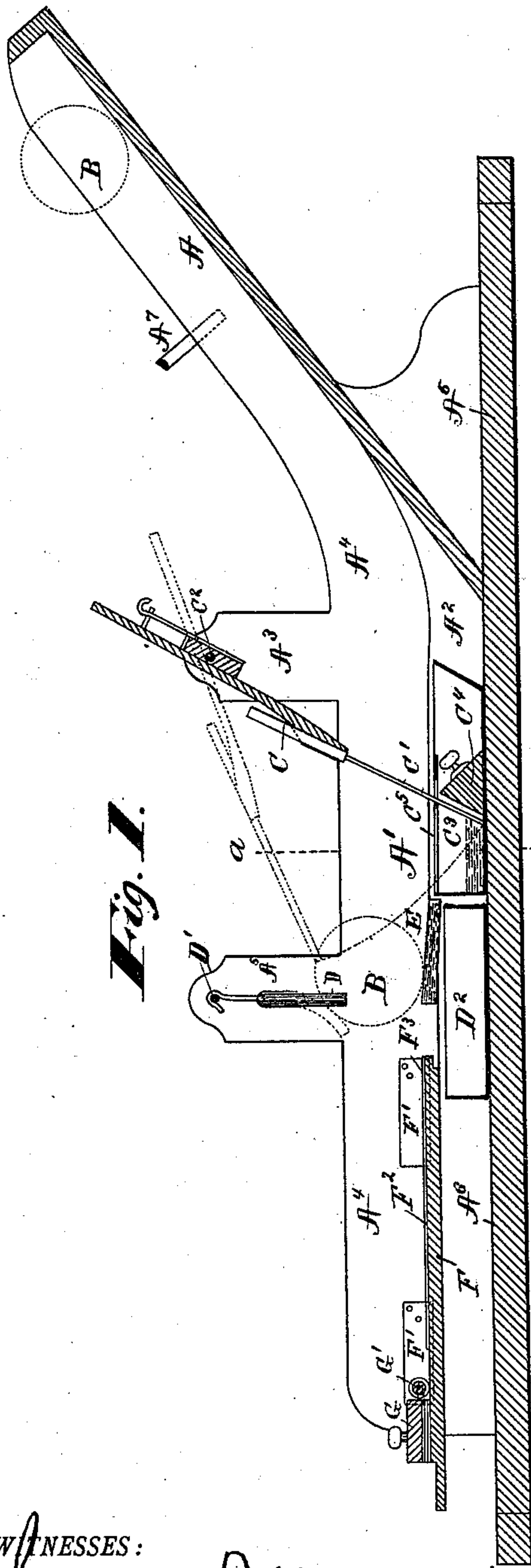
(No Model.)

2 Sheets—Sheet 1.

M. B. CHAMBERS.  
MACHINE FOR LABELING CANS.

No. 408,580.

Patented Aug. 6, 1889.



WITNESSES:  
*James M. Tully.*  
*John P. Hunt, Jr.*

INVENTOR  
*Malcolm Brown Chambers*  
BY  
*George Haseltine.*  
ATTORNEY

(No Model.)

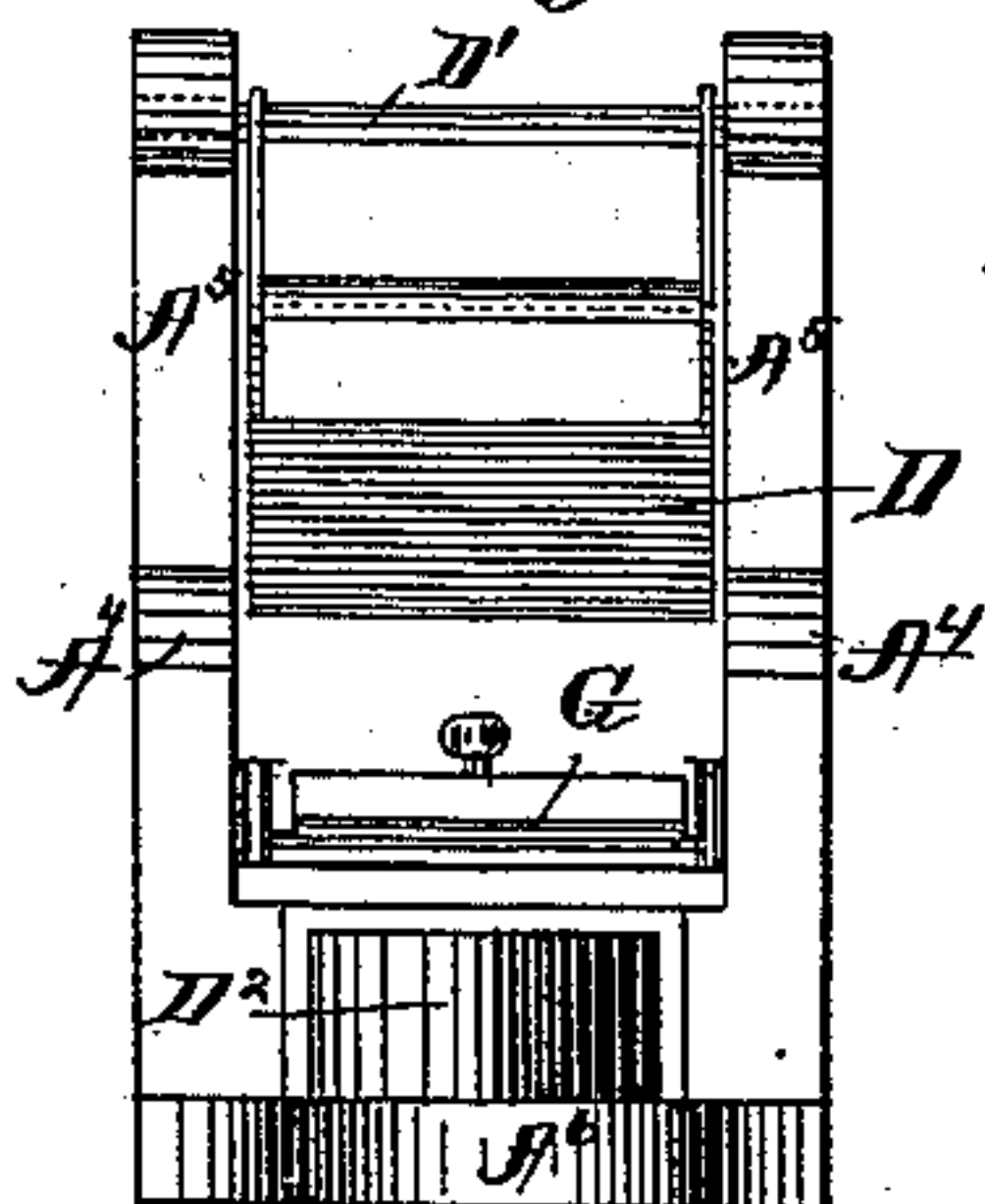
2 Sheets—Sheet 2.

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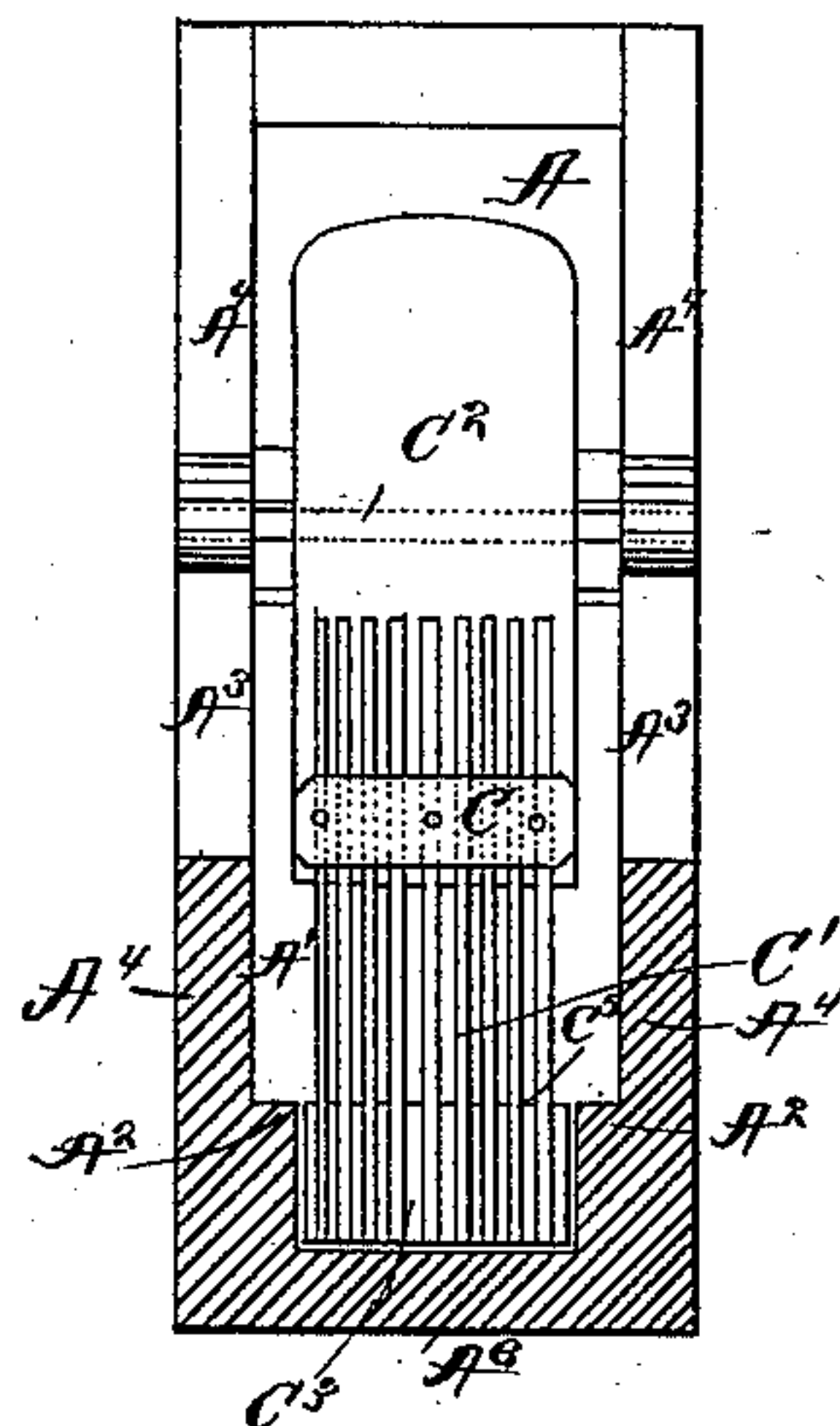
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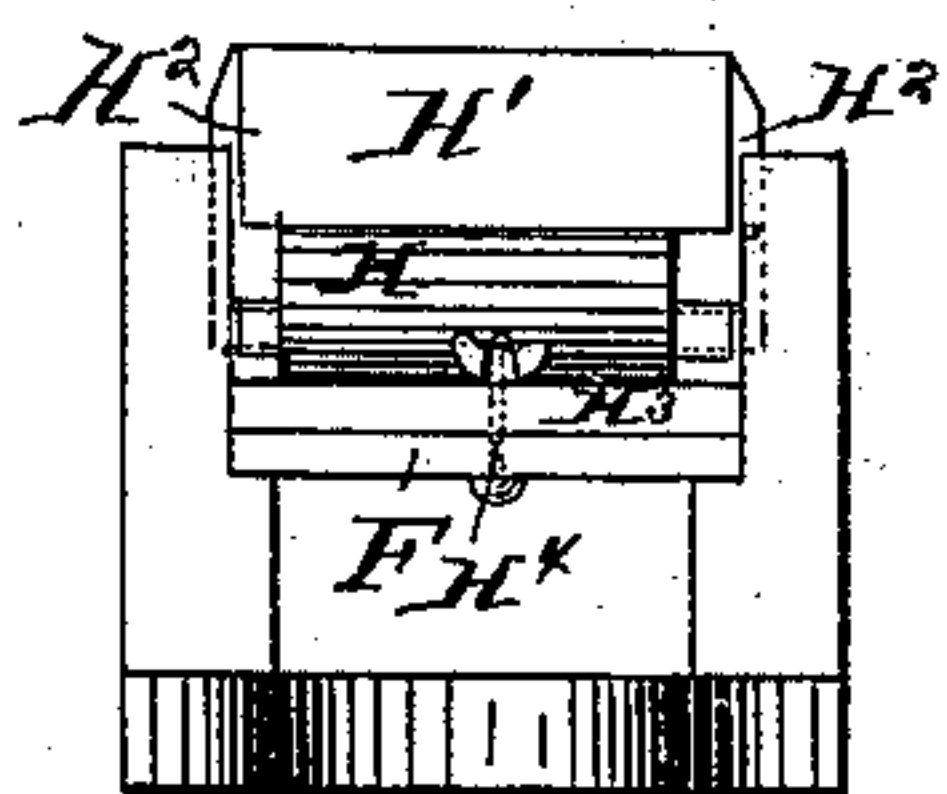
*Fig. 3.*



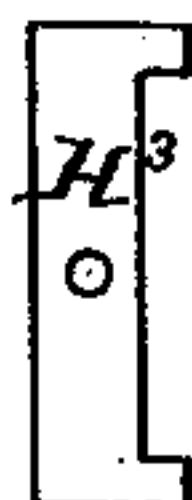
*Fig. 4.*



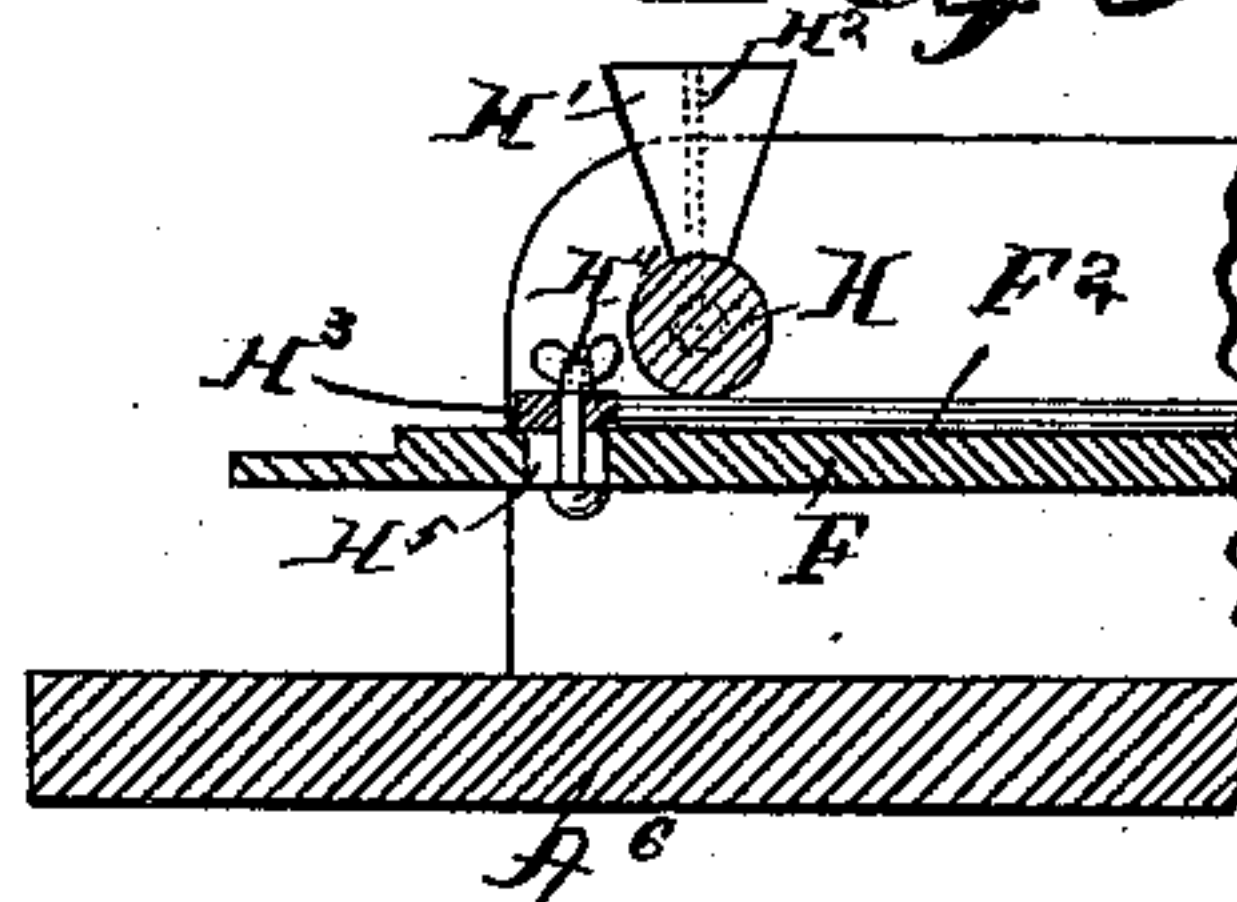
*Fig. 5*



*Fig. 7.*



**Fig 6**



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INVENTOR

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# UNITED STATES PATENT OFFICE.

MALCOLM BROWN CHAMBERS, OF GLENFERRIE ROAD, MALVERN, VICTORIA.

## MACHINE FOR LABELING CANS.

**SPECIFICATION** forming part of Letters Patent No. 408,580, dated August 6, 1889.

Application filed July 10, 1886. Serial No. 207,631. (No model.) Patented in Victoria August 11, 1884, No. 3,814.

*To all whom it may concern:*

Be it known that I, MALCOLM BROWN CHAMBERS, clerk, a subject of the Queen of Great Britain, residing at Glenferrie Road, Malvern, in the British Colony of Victoria, have invented an Improved Machine for Labeling Cans, (for which I have obtained Letters Patent in the British Colony of Victoria, No. 3,814, bearing date the 11th day of August, 1884,) of which the following is a specification.

My improved machine for labeling cans or other cylindrical packages consists of a chute or race the feeding end of which is at the top of a raised incline and the bottom of which leads to a level race where the comb for transferring the paste or gum to the can, the spreading-brush, and the labels which are to be affixed to said tins, are placed. This race is wide enough for a can to roll through it with ease and at the same time preserve it in its proper lateral position for the reception of the label. Near the foot of the incline and below the level race is a box containing paste, gum, or any other adhesive substance, and into this box there falls a comb, which is centered on a spindle affixed in upright supports which are secured to the side cheeks of the race. And at the necessary distance beyond this are other similar supports having a spindle on which to suspend the spreading-brush, immediately under which I place a drip-box. The remaining portion of the race forms a flat on which to place the labels, and the top of said flat is lined with a sheet of cork or some such pliant material, and to the side cheeks thereof I affix steel springs which retain the labels in their proper position for the pasted surface of the tin to pass over and adhere to the top one of them, while at the extreme end of said flat and on the top of the "lap" portion of the label I place a weighted pad, which is saturated with some adhesive substance which is transferred to that portion of the label under it ready for being drawn therefrom by the operator after the other portion has been wound on the tin; or in place of such pad I place a roller arranged under a suitable receptacle which contains paste or any other adhesive substance. At the end of the labels I sometimes place an adjustable stop.

Referring to the drawings hereto attached, Figure 1 is a longitudinal sectional elevation, and Fig. 2 a plan, of my said invention. Fig. 3 is an end elevation, omitting the parts to the right of the line *a a*, Fig. 1. Fig. 4 is a cross-sectional elevation at said line *a a* looking toward the feeding end. Fig. 5 is an end view, and Fig. 6 a longitudinal section, of the end part of the machine when furnished with a paste roller and box and an adjustable stop, a plan of which is shown at Fig. 7.

In the drawings, A is the inclined and A' the level portion of the race or chute, A<sup>2</sup> being the ledges on which the cam B rolls when going to and passing under the teeth C' of the comb C, which is weighted sufficiently to insure of its always falling back into the paste-box. The comb is centered on the spindle C<sup>2</sup>, affixed in the supports A<sup>3</sup> secured to the cheeks A<sup>4</sup> of the race. A<sup>5</sup> are similar supports having the spindle D' therein on which to suspend the spreading-brush D, which is made by preference of some textile material—such as cloth—and by preference weighted to assist in pressing the tin upon the label.

E is the slightly-inclined flat, which is of some pliant material and is between the gum or paste box C<sup>3</sup> and the drip-box D<sup>2</sup>. The paste-box has the sliding division C<sup>4</sup> in it and the longitudinal bars C<sup>5</sup> at a portion of its top.

F is the label-flat, F' the steel springs, F<sup>2</sup> the cork covering, and F<sup>3</sup> a thin piece of elastic material to raise up the ends of the labels so as to insure of their adhering to the pasted can.

G is the weighted pad provided with the roller G', and both of which are faced with cloth saturated with some adhesive substance, and said pad is placed at the position shown on the farther end of the label. The flat F is made to slide on the under ledges for the purpose of adjustment, and A<sup>6</sup> is the bottom of the machine, which may be affixed to a bench or otherwise, as desired, A<sup>7</sup> being a tie-bar at the position shown. When the end of the machine is constructed as shown in Figs. 5, 6, and 7, the roller H is supported in bearings attached to the paste-box H', which is retained in position by its having at its ends projecting strips H<sup>2</sup>, which fit in grooves formed in the side cheeks A<sup>4</sup>, and such may either be made vertical or oblique.



H<sup>3</sup> is the stop for the back ends of the labels, and this is secured in position by the thumb-screw H<sup>4</sup>, which passes through the oblong hole H<sup>5</sup> in the label-flat F.

5 The mode of operation is as follows: A number of labels are placed with their printed face downward on the flat F between the springs F', the blank ends of said labels being nearest the spreading-brush D, while on  
10 their other outer end is seated the pad G or the roller H. Then the operator places a filled can in the race at the top of the incline, by descending which the can gains sufficient impetus to cause it to roll under the teeth C' of  
15 the comb C, which transfers gum or paste to its surface from the paste-box C<sup>3</sup>, and from thence it passes under the spreader-brush D, which spreads the gum or paste evenly on its surface and also brushes off any superfluous  
20 moisture which may be on the tin. From here the can rolls onto the labels, and its pasted or gummed surface adheres to the top one of them and winds it round its cylindric surface until it reaches the pad G or paste-  
25 roller H, when the operator gives the can a slight turn and so draws the label from under said pad or roller, and then the operator secures the joint at the lap, which completes the labeling of the tin or cylindrical package.  
30 It will be obvious that when labeling tins or packages which have no lap-joint the pad G or roller H may be dispensed with, and then in such cases the tin or package may run straight through the race.  
35 The bars C<sup>5</sup> afford a proper surface for the cans to roll upon, but at the same time do not interfere with the free movement of the comb into and out of the paste-box, the teeth of said comb alternating with said bars, as  
40 shown in Figs. 2 and 4.

Having thus described the nature of my invention and its mode of operation, what I

believe to be new and therefore claim as novel in my improved machine for labeling tins or other cylindrical packages, is— 45

1. The combination, in a labeling-machine, of a race along which the cans roll, and a comb pivoted above said race and depending into the paste-box to be lifted therefrom by the contact of the cans, substantially as set 50 forth.

2. The combination, in a labeling-machine, of an inclined and horizontal race, a paste-box, a paste-applying comb pivoted above said race and depending into the paste-box, 55 and a spreading-brush D, substantially as set forth.

3. The combination, in a labeling-machine, of a paste-box, a pivoted comb depending therein, and a yielding spreading-brush, sub- 60 stantially as set forth.

4. The combination, in a labeling-machine, of the paste-box and pivoted comb depending therein, and springs for maintaining the labels in proper position, substantially as set 65 forth.

5. The combination, in a labeling-machine, of a paste-box and pivoted comb depending therein, and a piece F<sup>3</sup>, for elevating the ends of the labels, substantially as set forth. 70

6. The combination, with the race, paste-box below the same, and pivoted comb depending therein, of a supplemental device G', substantially as set forth.

7. The combination, in a labeling-machine, 75 of the paste-box having bars C<sup>5</sup> at its top, and a pivotal comb having its teeth depending into said box between said bars C<sup>5</sup>, substantially as set forth.

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Witnesses:

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PERCIVAL AUGUSTUS SMITH.