

No. 746,293.

PATENTED DEC. 8, 1903.

D. CLERICIO.

MACHINE FOR CURLING HAT BRIMS.

APPLICATION FILED APR. 14, 1903.

NO. MODEL.

2 SHEETS—SHEET 1.

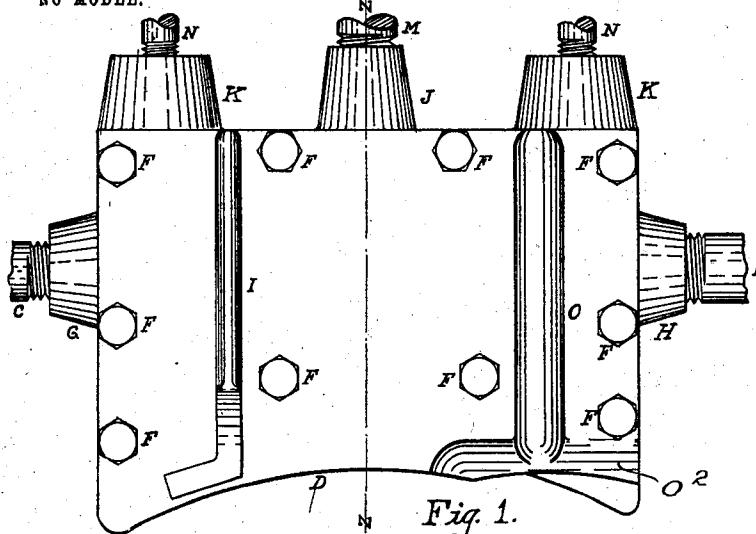


Fig. 1.

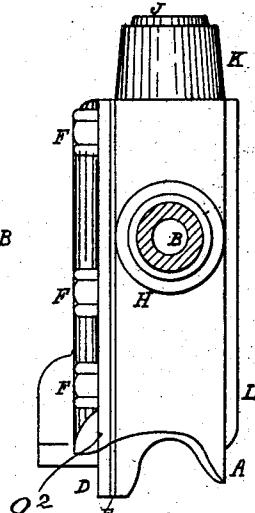


Fig. 2.

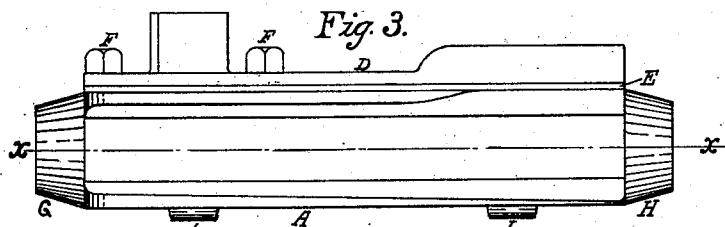


Fig. 3.

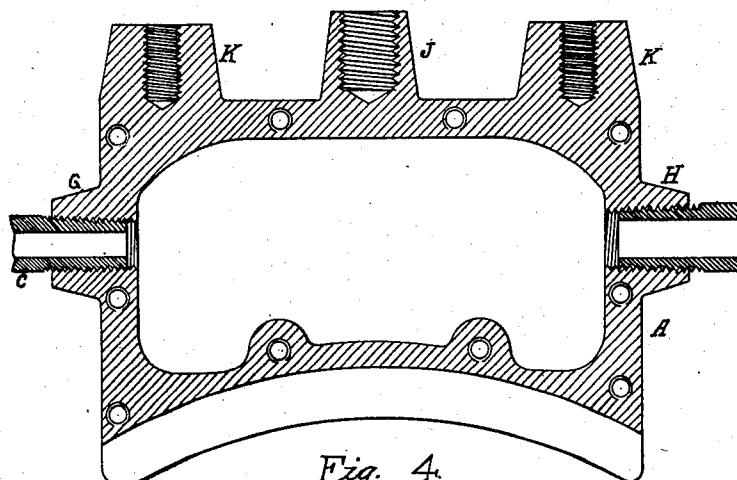


Fig. 4.

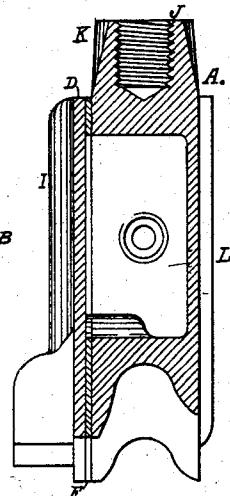


Fig. 5.

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2 SHEETS—SHEET 2.

Fig. 6.

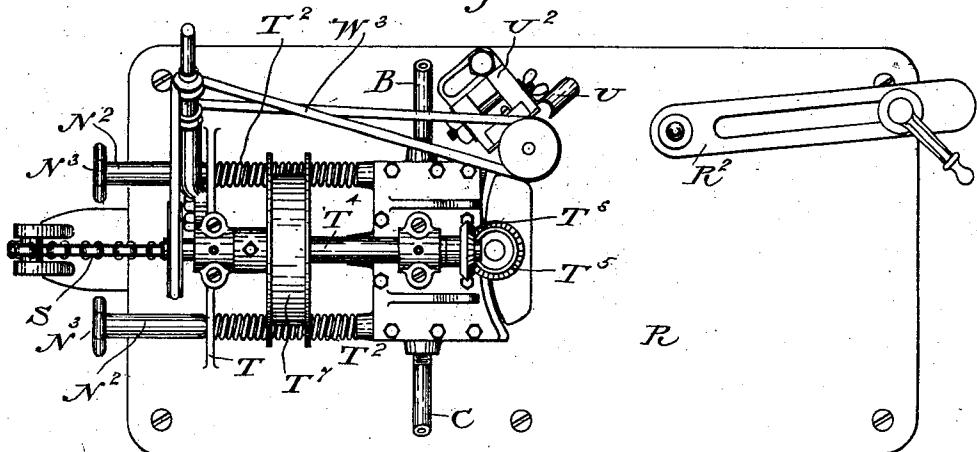


Fig. 7.

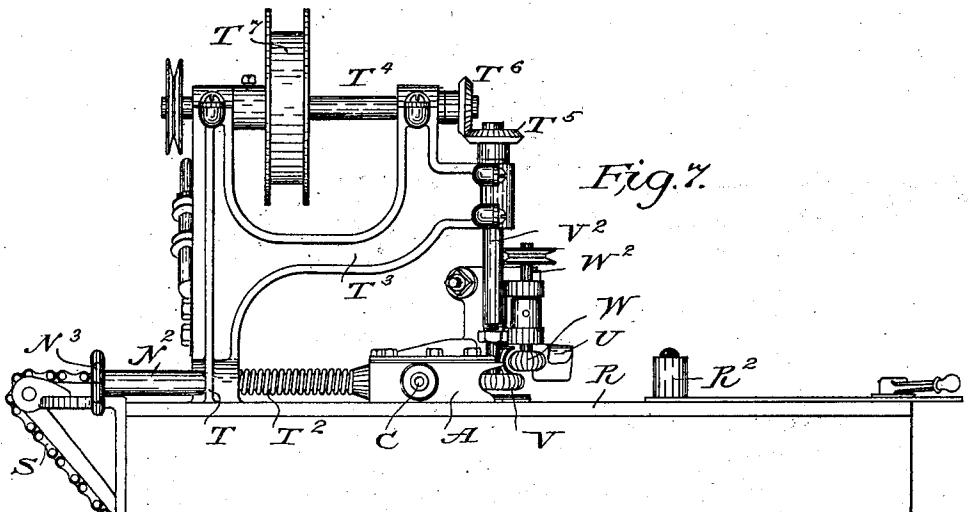
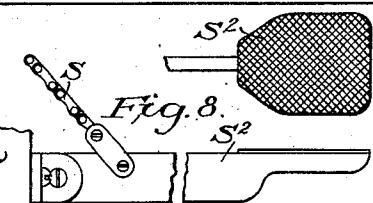


Fig. 9.



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UNITED STATES PATENT OFFICE.

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MACHINE FOR CURLING HAT-BRIMS.

SPECIFICATION forming part of Letters Patent No. 746,293, dated December 8, 1903.

Application filed April 14, 1903. Serial No. 152,632. (No model.)

To all whom it may concern:

Be it known that I, DOMINICK CLERICO, residing in the city of Yonkers, in the county of Westchester and State of New York, have 5 invented certain new and useful Improvements in Machines for Curling Hat-Brims, of which the following is a specification.

My invention relates to improvements in machines for curling hat-brims, in which I 10 provide a hollow forming-block or chest which I raise to the required temperature by means of steam.

Heretofore the forming-blocks have been heated by means of gas or other flame applied directly to the block; but this method of heating caused the block or form to sometimes become too hot and burn or crack the brim. It is to obviate this objection and at the same time to provide an effective apparatus of the character described that I have devised my invention, and in my apparatus I provide a means operated by the foot for readily moving the form-block or chest out of action; and with these and other objects 25 in view the invention consists in a device of the class specified constructed as hereinafter described and claimed.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which—

Figure 1 is a top view of my improved forming-block or steam-chest. Fig. 2 is a side view thereof. Fig. 3 is a front elevation of same. Fig. 4 is a sectional plan view taken through line $x-x$ of Fig. 3. Fig. 5 is a section taken on the line $z-z$ of Fig. 1. Fig. 6 is a top view of a complete machine embodying my improvements. Fig. 7 is a side elevation of the upper part of the machine. Fig. 8 is a view of the foot-lever, and Fig. 9 is a plan view thereof.

45 In the practice of my invention I provide a hollow block or chest A, having a cover D, attached thereto by means of the screws F, and between the said forming-block A and its cover D, I interpose a washer or gasket E.

50 The front end of the forming-block A is formed with a segmental concave surface, against which the brim of the hat is formed,

and said forming-block is movably mounted upon the bed R of the machine and is connected by means of the chain S to the foot-lever S², which is conveniently arranged upon the machine. 55

To keep the forming-block rigidly in its proper position, I provide the guide-rods M and N, which are secured to the bosses J and K, respectively.

Between the abutment T and the forming-block A and engaging around the rods N, I provide spiral springs T², whose function is to keep the block A normally in operative 65 position.

To afford a means for adjusting the block A, I form a thickened portion N² upon the rods N and provide the end of this thickened portion with a handle or hand-nut N³. 70

Steam is supplied to the block A through the inlet B and passes out through the exhaust-pipe C and the inlet B, and the outlet C may be connected by means of a flexible connection to the source of steam-supply and 75 the exhaust.

A roller V is mounted upon the lower end of the shaft V², which is carried upon the frame T³ and rotated by means of the shaft T⁴, to which it is connected by the gears T⁵ 80 and T⁶.

The periphery of the roller V conforms to and is adapted to engage the concave surface of the block A, and to curl the brim of a hat and to turn the hat or move it between the 85 roller V and concave surface of the block A. I provide a roller W, mounted upon the lower end of the shaft W², which is connected by a belt W³ to the shaft T⁴. The said roller W engages the former U, secured upon the block 90 U², and in conjunction with which the said roller gives the brim its preliminary curl. In order to guide the hat and keep it in its proper relative position, I provide the guide R², which is adjustably attached to the machine and which may be of any approved construction. 95

Upon the bottom of the chest A, I form the ribs I, which engage in corresponding recesses in the bed of the machine and which are employed to keep the chest in proper alignment. 100

The ribs I and O are formed in the cover D to strengthen and reinforce the same, and the

concave surface upon the block A is elevated one way and partly cut away in another direction, as indicated at O², in order to give the proper turn to the brim.

5 The shaft T⁴ is driven by any suitable power applied to the pulley T⁷, and when in operation steam is admitted to the block A through the inlet B and exhausts through the outlet C.

The passage of the steam through the block 10 A heats the said block to any desired temperature and enables the operator to curl the brim of the hat by passing it between the said concave surface of the block A and the roller W.

15 To remove the hat after the brim has been formed, the foot-lever S² is depressed, thereby withdrawing back the block A and allowing the hat to be removed.

This device is simple in construction and 20 is perfectly adapted to accomplish the result for which it is intended, and various changes in and modifications of the construction herein described may be made without departing from the spirit of my invention or sacrificing 25 its advantages.

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

1. In a machine for curling hat-brims provided with a forming-roller, a hollow forming-block movably mounted thereon and adapted to engage with said forming-roller to curl the brim of a hat, a chain secured to said forming-block and passed over a suitable pulley on the frame of the machine and a foot-lever attached to the body of the machine and to which one end of the said chain is attached; said lever and chain providing means for moving the said forming-block out 35 of engagement with the said forming-roller, substantially as shown and described.

2. In a machine for curling hat-brims provided with a forming-roller, a hollow forming-block movably mounted thereon and adapted to engage with the forming-roller to 45 curl the brim of a hat, means for passing steam through the said forming-block, projecting guide-arms provided upon the said forming-block and suitably mounted on the body of the machine, springs mounted upon 50 the said projecting arms and interposed between the said forming-block and the body of the machine and adapted to keep the said forming-block normally in operative position and means for moving said forming-block out 55 of operative position, substantially as shown and described.

3. In a machine for curling hat-brims provided with a forming-roller, a hollow forming-block movably mounted thereon and 60 adapted to engage with the forming-roller to curl the brim of a hat, means for passing steam through the said forming-block, projecting guide-arms provided upon the said forming-block and suitably mounted on the 65 body of the machine, springs mounted upon the said projecting arms and interposed between the said forming-block and the body of the machine and adapted to keep the said forming-block normally in operative position, a chain attached to the said forming-block and passing over a suitable pulley upon the frame of the machine and a foot-lever attached to the body of the machine and to which the said chain is attached and the said 70 lever and chain providing a means for moving the said forming-block out of operative position, substantially as shown and described.

DOMINICK CLERICO.

Witnesses:

JAMES E. WARNER,
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