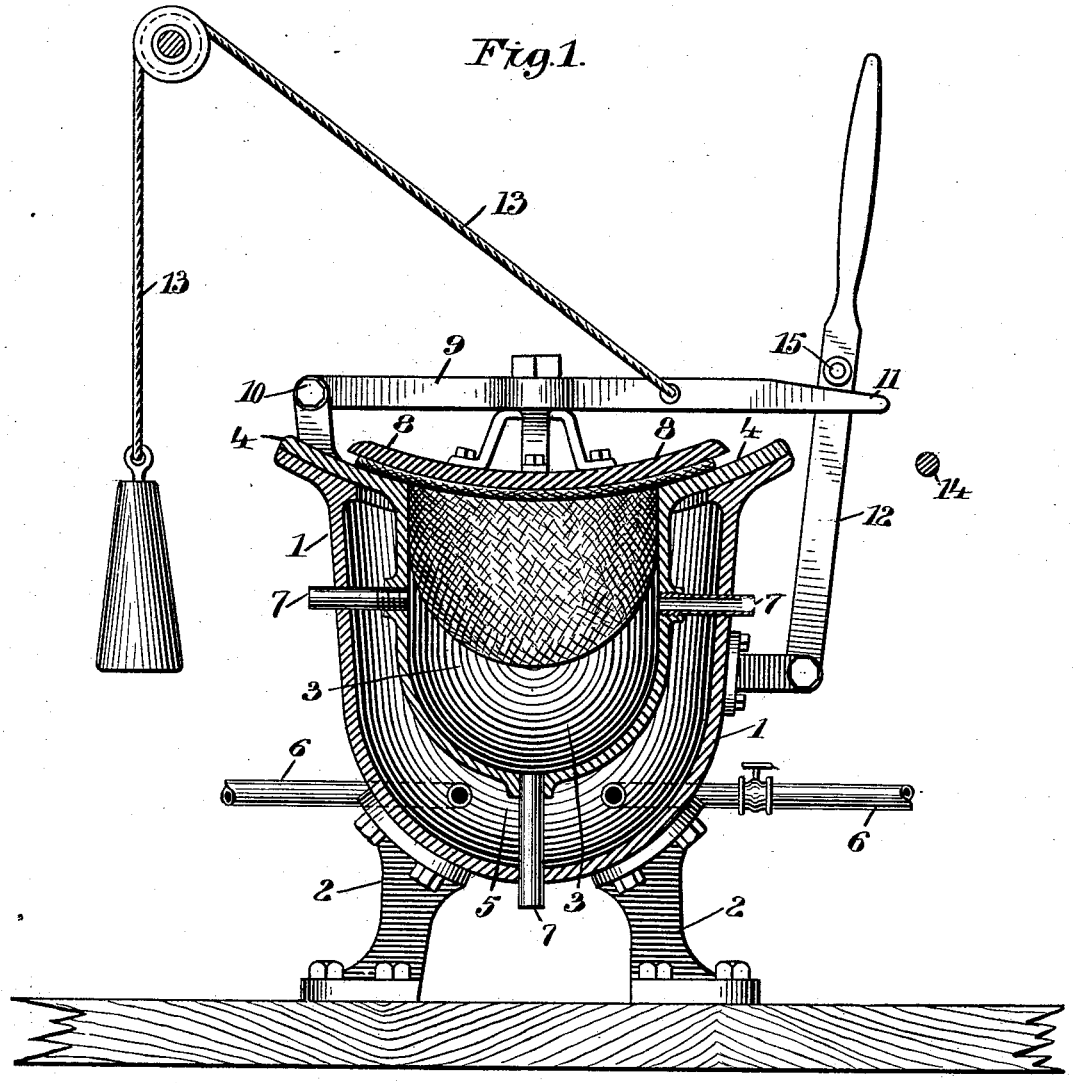
(No Model.) 3 Sheets—Sheet 1.

J. MARSHALL.

HAT BRIM PRESSING MACHINE.

No. 489,591. Patented Jan. 10, 1893.

Fig. 1.



Witnesses
Wm. J. Tanner
N. J. Tanner

Inventor
James Marshall
by his attorney
D. A. Hubbard

(No Model.) 3 Sheets—Sheet 2.

J. MARSHALL.

HAT BRIM PRESSING MACHINE.

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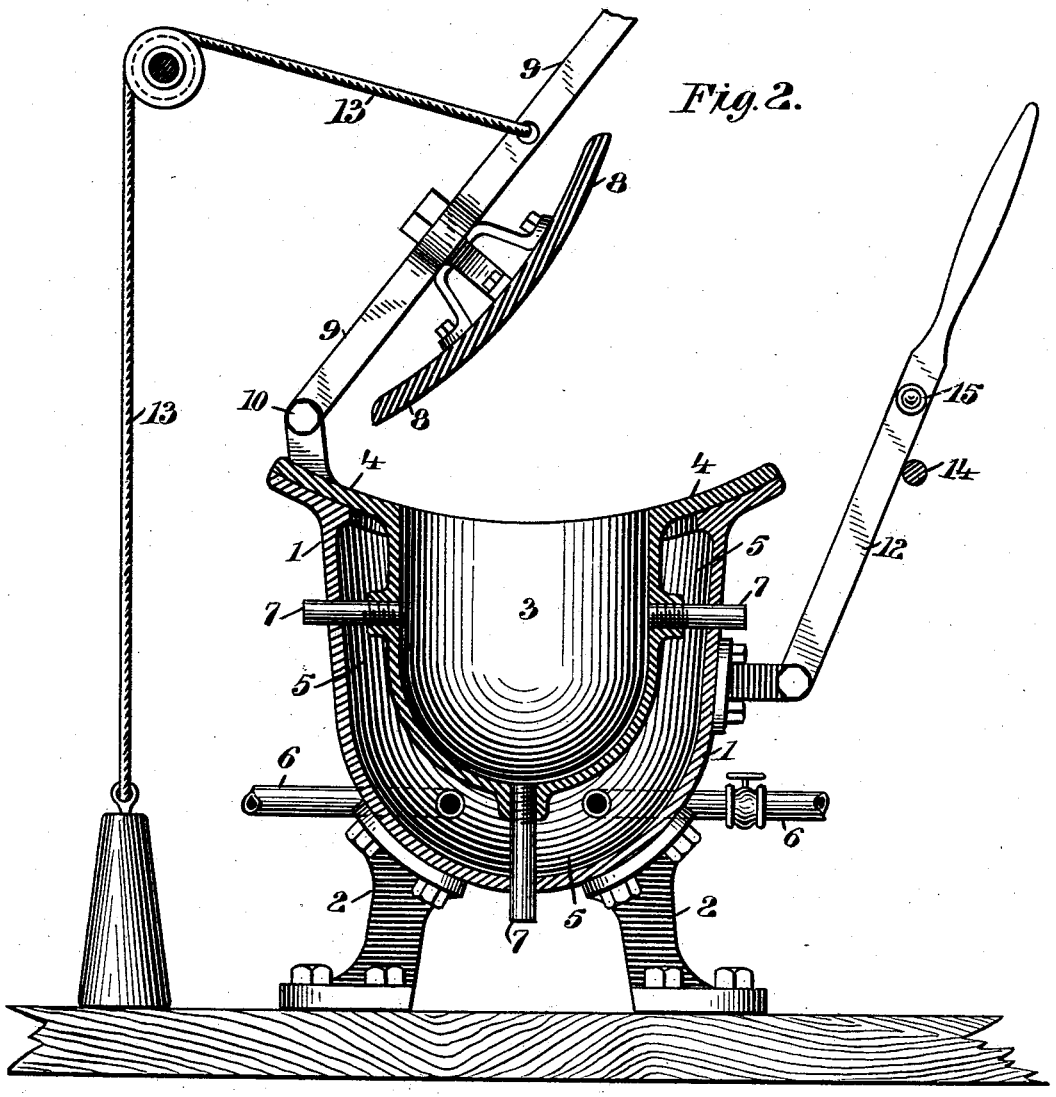
Fig. 2.



Witnesses
Wm. J. Tanner
H. J. Tanner

Inventor
James Marshall
by his attorney
D. A. Hubbard

(No Model.) 3 Sheets—Sheet 3.

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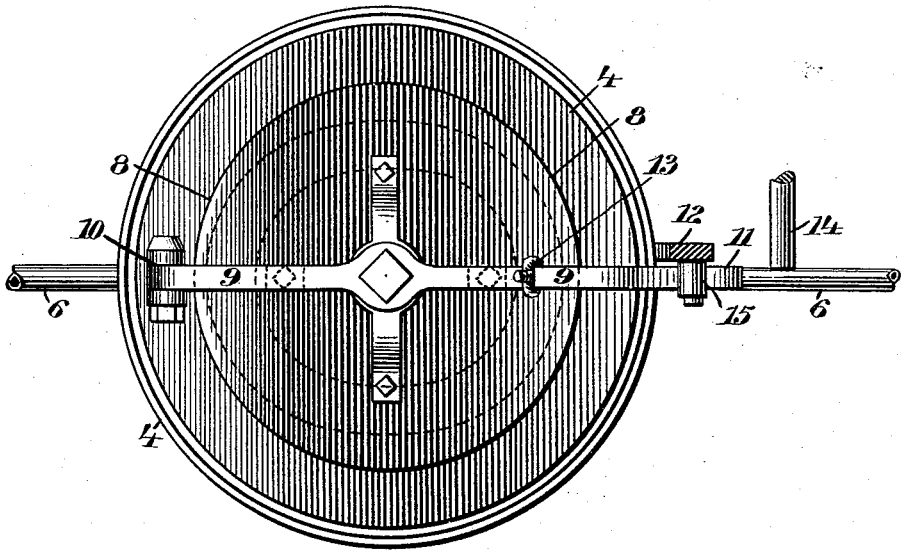
Fig. 3.



Witnesses
Wm. J. Tanner
A. J. Tanner

Inventor
James Marshall
by his attorney
D. A. Hubbard

UNITED STATES PATENT OFFICE.

JAMES MARSHALL, OF FALL RIVER, MASSACHUSETTS.

HAT-BRIM-PRESSING MACHINE.

SPECIFICATION forming part of Letters Patent No. 489,591, dated January 10, 1893.

Application filed October 25, 1890. Serial No. 369,277. (No model.)

To all whom it may concern:

Be it known that I, JAMES MARSHALL, a citizen of the United States, residing at Fall River, in the county of Bristol and State of Massachusetts, have invented certain new and useful Improvements in Hat-Brim-Pressing Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to certain new and useful improvements in machines for pressing and flattening hat brims, and has for its object to provide a machine of this description which shall be simple in construction, easy of operation, and in which the brims of stiff hats may be thoroughly pressed and flattened and at the same time given the sweep from front to rear that the hat may be required to assume previous to the curling operation; and with these ends in view my invention consists in the construction and combination of elements hereinafter fully explained and then recited in the claims.

In order that those skilled in the art to which my invention appertains, may fully understand its construction and method of operation, I will describe the same in detail, reference being had to the accompanying drawings which form a part of this specification, and in which,

Figure 1, is a vertical longitudinal section showing the machine in operation, Fig. 2, a like view, showing the machine open and ready to receive the hat, Fig. 3, a plan view of the machine as shown at Fig. 1.

Like numerals denote the same parts in all the figures.

1 represents a vessel supported upon suitable standards 2, upon and within which rests a pot 3 of such capacity and shape as to readily admit the crown of a stiff hat. Surrounding the opening in this pot 3 is a flange 4 upon which the brim of the hat to be pressed is adapted to rest, said flange having a curvature equal to the sweep which it is desired to impart to the brim of the hat when the same is finished, except for the curling operation. The space around the pot within the vessel 1 constitutes a steam chamber 5 having suitable connections 6. The object of this steam chamber is to heat the flange 4 after the manner of an iron. The interior of the pot 3 is entered by any suitable pipes or tubes 7 which ventilate the inside of the pot and prevent accumulations of moisture.

8 is a pressure plate whose sweep corresponds to the sweep or curve of the flange 4. This plate 8 is pivotally secured to and moves with the lever 9, one end of which is fulcrumed as at 10, and whose other end is beveled as seen at 11.

12 is an operating lever which serves both to apply the required pressure and to lock the parts in operative position, and 13 represents a weight and cord arranged over a pulley, and adapted normally to hold the plate and its lever in the position shown at Fig. 2.

14 is any suitable stop to prevent the falling of the lever 12.

In the operation of my invention the hat to be pressed is inserted within the pot 3 as shown at Fig. 1. That is to say, with its crown within the pot and its brim resting upon the upper surface of the flange 4. The lever and plate 8 are then brought downward to the position shown at Fig. 1 against the resistance of the weight, and the lever 12 raised from the position shown at Fig. 2, so that a roll or stud 15 carried thereby may ride upon the obliquely fashioned end of the lever 9. This movement presses the plate 8 downward with great force upon the hat brim and causes the latter to conform to the curve of the flange 4 (as seen at Fig. 1) the heat of which latter tends to set the brim. The hat is left in this position for a short space of time, say one to three minutes, when the lever being backed out of connection with the lever 9 the latter and its plate are raised by the weight out of engagement with the hat which may then be moved.

By means of this machine it is readily apparent that in a single operation the hat brim is both pressed and flattened and has imparted to it the sweep or curve desired.

I claim,

1. A hat-brim pressing machine, comprising the following elements, the vessel or casing 1 flanged at its upper end as shown, the pot 3 of lesser external area than the interior of the vessel 1 and having the flange 4 which rests upon the flange of vessel 1, said pot depend-

ing within the vessel 1 in a manner to leave the steam chamber or space 5 between its walls and the walls of the vessel, the steam pipes 6 in communication with said chamber 5, a pressure plate 8 pivotally connected with operating mechanism, as described, which plate operates upon the brim of a hat resting upon the flange 4 of the pot, all constructed and arranged substantially as shown and described.

2. In a hat brim pressing machine, the cup-shaped vessels 1, 3, flanged at their upper edges and resting one within the other in such manner as to form the steam space 5 between the adjacent walls as shown, the steam-pipes 6 in communication with said chamber, in combination with the pressure plate 8 pivotally connected to the lever 9 fulcrumed at one end between ears upon the vessel or pot 2, a cord and weight to keep said plate normally elevated, and an operating lever 12 to apply pressure to the lever 9 which controls the movement of the plate 8, all constructed and arranged substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

JAMES MARSHALL.

Witnesses:
JOHN E. HEALY,
GEO. N. DURFEE.