

(No Model.)

2 Sheets—Sheet 1.

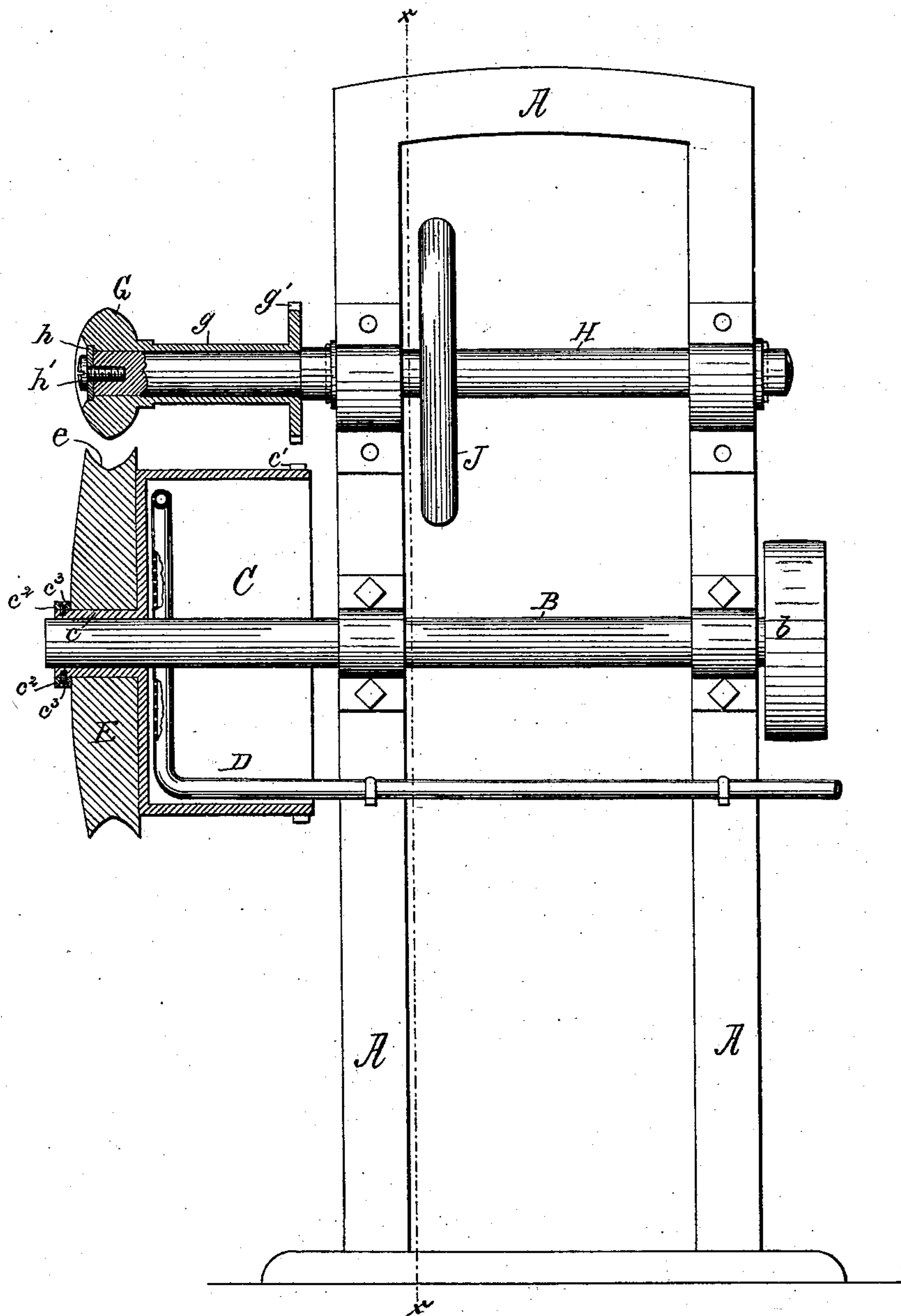
C. W. GILMAN & R. WEIKER.

## HAT ROLL PRESSING MACHINE.

No. 297,984.

Patented May 6, 1884.

*Fig. 1.*



Witnesses.

Arthur Lipperden.

Henry Marsh.

# Inventors

and Charles H. Gilman  
Raymond Weiker  
by Crosby Gregory Atty

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2 Sheets—Sheet 2.

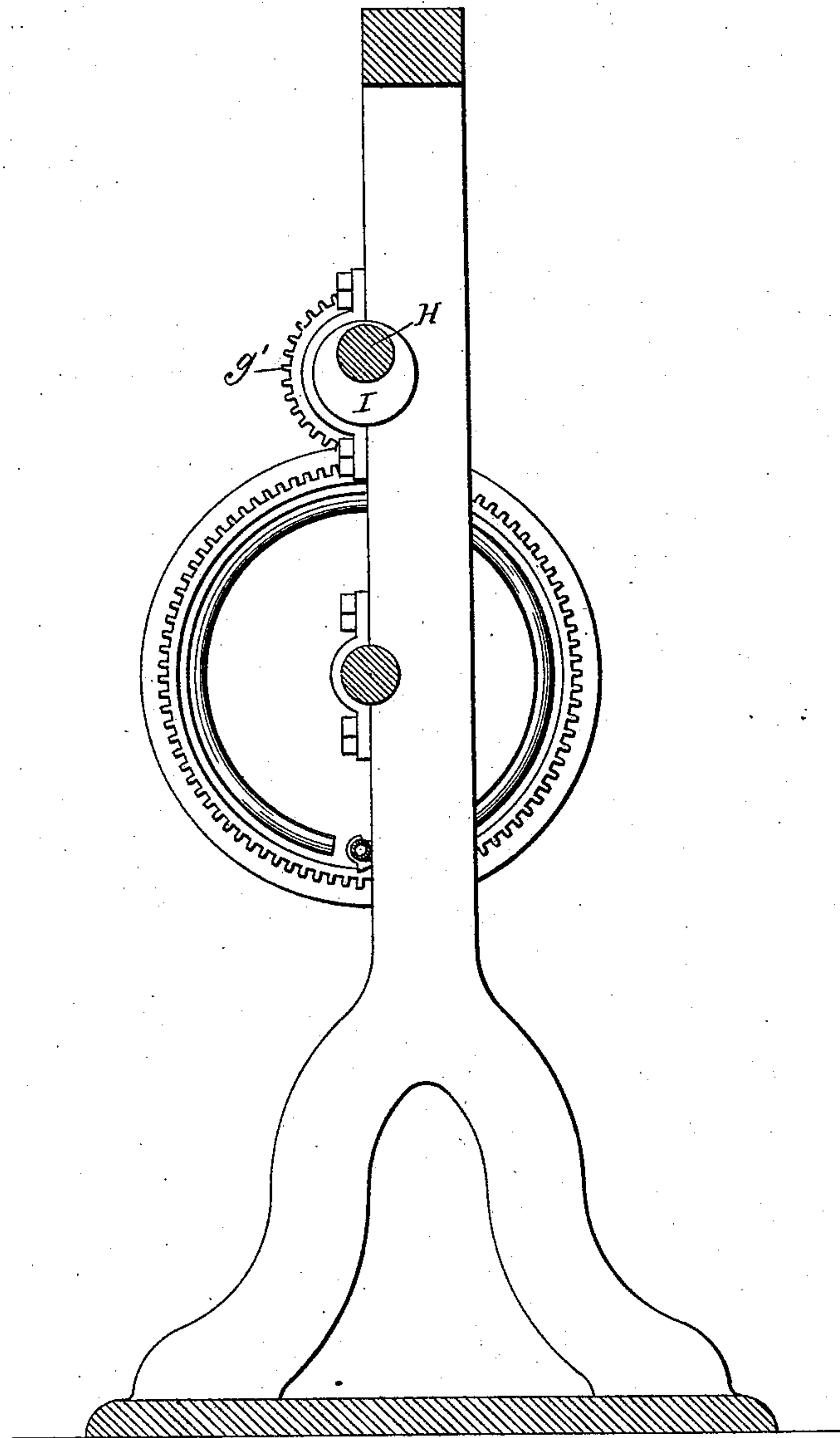
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*Fig. 2.*



Witnesses.

*Arthur Lipperton.*

*Henry Marsh*

Inventors

*Charles W. Gilman*

*Raymond Weiker*

*by Crosby & Gregory Attys*



# UNITED STATES PATENT OFFICE.

CHARLES WILLIAM GILMAN AND RAYMOND WEIKER, OF MEDFIELD, MASS.

## HAT-ROLL-PRESSING MACHINE.

SPECIFICATION forming part of Letters Patent No. 297,984, dated May 6, 1884.

Application filed February 27, 1884. (No model.)

*To all whom it may concern:*

Be it known that we, CHARLES W. GILMAN and RAYMOND WEIKER, of Medfield, county of Norfolk, and State of Massachusetts, have invented an Improvement in Hat-Roll-Pressing Machines, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

10 In this our invention the hat, the brim of which is to be pressed to finish the roll, is placed upon a rotating heated block or iron connected with a rotating shaft, and a presser, shaped at its edge to enter the concaved portion of the roll of the brim, holds the convexed or outer side or face of the roll of the brim down in the peripheral groove in the said block or iron, as will be described.

20 Figure 1 represents in side elevation and partial section a hat-roll-pressing machine embodying our improvements, Fig. 2 being a transverse vertical section thereof on line *x x*, Fig. 1.

25 The frame-work A, of suitable construction to sustain the working parts, has applied to it the main shaft B, having a band-pulley, *b*, by which to be rotated in the usual manner. The shaft B, at its front end, has attached to it a hollow cylinder C, which receives a gas-pipe, D, supplied with gas from a suitable reservoir, the said pipe being preferably arranged therein, as shown, and provided with a number of orifices or gas-exits to deliver the same ignited against the cylinder, so as to heat by conduction the metallic block or iron E, which is secured, in the present instance, in front of the cylinder and on the hub *c* thereof by means of the annulus *c'* and set-screws *c''*, the said block or iron E having a peripheral groove, *e*, of a form to give proper curvature to the outer convex face or outer side of the roll of a hat-brim.

45 The metallic presser G, having its periphery shaped to fit the peripheral groove in the iron E, and being small enough to enter the inner side of the roll of the brim, is provided with a sleeve, *g*, having a toothed or cogged disk or gear, *g'*, at its inner end. The presser and its sleeve are loosely held by washer *h* and screw *h'* upon the rock-shaft H, so as to be free to rotate thereon. The shaft H has two eccentrics,

I, attached to it, which enter suitable bearings in the frame-work, the said shaft being also provided with a suitable hand-wheel, J, by which it may be partially rotated, together with the said eccentrics I, so that the latter act to cause the shaft to rise and fall. and during the latter movement the presser G, placed within the roll of the hat-brim, forces the latter down into the peripheral groove of and in contact with the heated rotary iron, the pressure being more or less, according to the extent to which the said shaft is turned. When the shaft H is forced down, as described, the toothed or cogged disk *g'* on the sleeve *g* is brought into engagement with the teeth or cogs *c'*, formed on the cylinder C, as shown, whereupon the said cylinder and iron E carry with them the presser G.

70 The disk *g'* and teeth *c'* may be omitted, as without them the presser G will for the most part of the time be moved at the same surface-speed as the iron by simply the pressure of the former against the hat-brim laid upon the latter.

75 The irons and pressers may be of different sizes and shapes in pairs, according to the shape and size of roll to be pressed.

We claim—

1. In a hat-roll-pressing machine, a block or iron connected with a rotating shaft and having a peripheral groove, and a presser shaped at its edge to enter the concaved portion of the roll of a hat-brim, and adapted to hold the convexed or outer side or face of said roll down into the peripheral groove of the block or iron, in combination, as and for the purpose specified.

2. In a hat-roll-pressing machine, a heated block or iron connected with a rotating shaft and having a peripheral groove, and a presser shaped at its edge to enter the concaved portion of the roll of a hat brim, and adapted to hold the outer surface or face of said roll down into the peripheral groove of the block or iron, combined and arranged as and for the purpose set forth.

3. The combination, with a block or iron connected with a rotating shaft and having a peripheral groove, of a presser connected with a shaft adapted to rise and fall, as set forth, said presser being arranged above the block or

iron, and being shaped at its edge to enter the  
concaved portion of the roll of a hat-brim, and  
adapted, upon the downward movement of its  
shaft, to hold the convexed or outer side or face  
5 of said roll down into the peripheral groove of  
the iron or block, substantially as set forth.

4. The combination, with a block or iron  
connected with a rotating shaft and having a  
peripheral groove, of a presser connected with  
10 and free to be rotated upon a shaft adapted to  
rise and fall, as set forth, and provided with a  
sleeve encircling the presser-shafts, and having  
a toothed disk or gear, and suitable gear mech-

anism attached to or moved in unison with the  
block-shaft with which the toothed disk meshes 15  
upon the downward movement of the presser-  
shaft, all substantially as and for the purpose  
set forth.

In testimony whereof we have signed our  
names to this specification in the presence of 20  
two subscribing witnesses.

CHARLES WILLIAM GILMAN.

RAYMOND WEIKER.

Witnesses:

JEREMIAH B. HALE,

A. M. CODDING.