Dec. 18, 1928. 1,695,646

L. FLICKER

HAT RENOVATING MACHINE

Filed Dec. 13, 1923

FIG. 1.

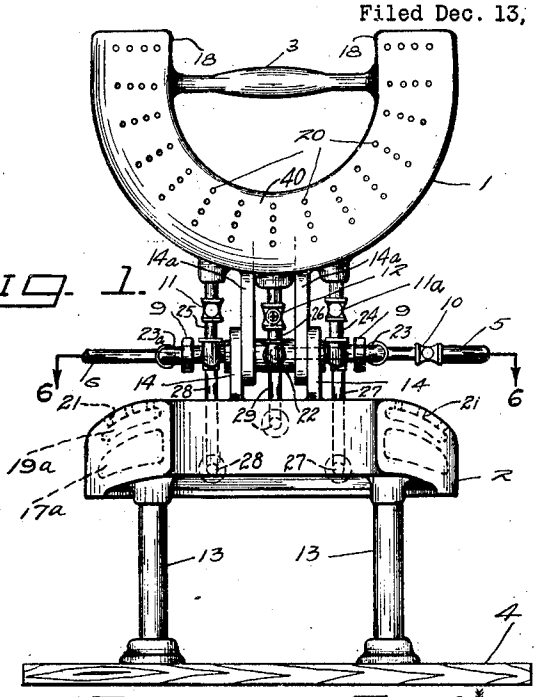


FIG. 3.

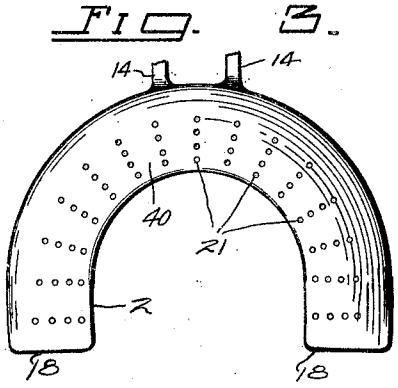


FIG. 5.

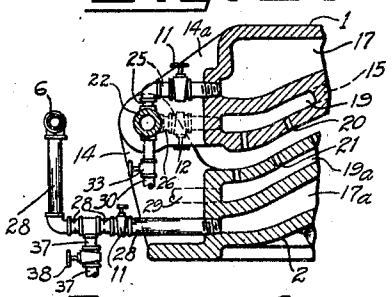


FIG. 2.

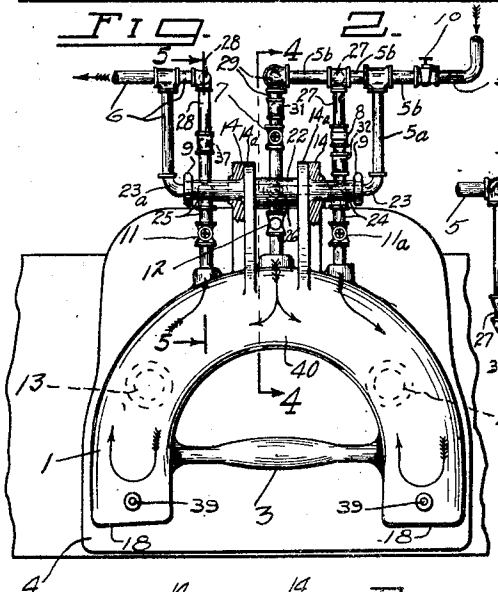


FIG. 4.

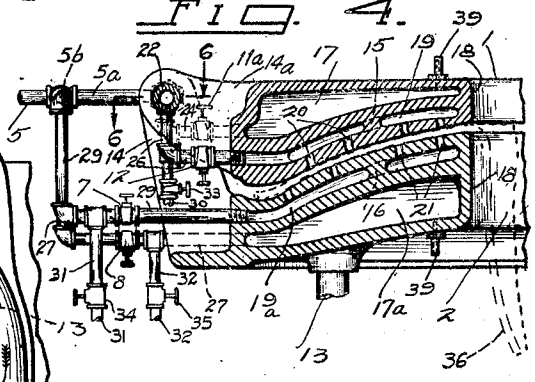
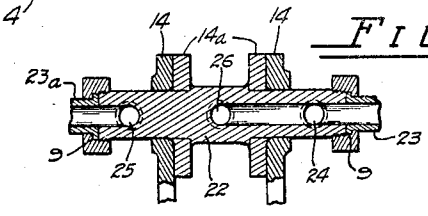


FIG. 6.



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UNITED STATES PATENT OFFICE.

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HAT-RENOVATING MACHINE.

Application filed December 13, 1923. Serial No. 680,406.

My invention relates to improvements in hat renovating machines wherein steaming and pressing elements are provided for the brim portions of a hat, and the objects are, first, to provide an improved hat renovating machine having simple and effective means for steaming and pressing the brim of the hat; second, to provide an improved device of the character described having means for altering the shape of the hat brim; third, to provide improved means for pressing the both sides of a hat brim while said brim is being steamed; fourth, to provide improved means for dry pressing the both sides of a hat brim.

The accompanying drawings illustrate one of several means of accomplishing the objects in the present invention, which though differing in arrangement of the details would be principally related to one another, in which:

Figure 1 represents a front elevation of my improved renovator.

Figure 2 represents a plan view of Figure 1.

Figure 3 represents a top plan view of the bottom plate.

Figure 4 represents a part sectional view on line 4—4 of Figure 2.

Figure 5 represents a part sectional view on line 5—5 of Figure 2.

Figure 6 represents a sectional view on line 6—6 of Figure 1, with parts removed.

I attain these objects by the construction illustrated in the accompanying drawings, in which the bodies 1 and 2 are horseshoe-shaped to form a hollow arcuate element, and are male and female to one another, to suit the front or back portion of the hat 36 to be renovated, and the end portions 18 of the said bodies 1 and 2 extend a distance around the inner two sides of the said hat, the chamber 19 is formed within the body 1 adjacent to the said body 2, and the chamber 17 is in turn formed in the said body 1 adjacent to the chamber 19, the webs 15 are formed in the said chamber 19 between the holes 20, the said holes 20 being cut through the outer shell of the body 1 from the said chamber 19 towards the said body 2. A chamber 19^a is formed in the body 2 adjacent to the body 1, and the chamber 17^a is in turn formed in the said body 2 adjacent to the chamber 19^a, and the webs 16 are formed in the said chamber 19^a between the holes 21, the said holes 21 being cut through the outer shell of the body 2 from the said chamber 19^a towards the said body 1. A handle 3 is secured within the said body 1 and end portions 18. The hinges 14 and 14^a are secured to the bodies 2 and 1 respectively, and the hub 22 is operatively secured in the outer end portions of the said hinges 14 and 14^a, and the standards 13 are in turn secured between the body 2 and the floor 4. The pipe 5 is connected to a steam supply means, not shown, and leads to the pipe 5 the valve 10 therebetween, the pipe 5^a connects with the said pipe 5^b and leads to the elbow 23, and the said elbow 23 is operatively connected to one end of the hub 22 by a swivel joint 9, with an opening therein leading from the said pipe 5^a to the pipes 24 and 26, the said pipe 24 thence leads from the hub 22 to the said chamber 17, and the said pipe 26 leads from the same hub 22 to the said chamber 19, with the valves 11^a and 12 positioned in connection with the said pipes 24 and 26 respectively. The pipe 30 is connected to the lower portion of the hub 22 and pipe 26 and leads to a drain, not shown, and a valve 33 is in turn positioned in the said pipe 30. The pipes 27 and 29 are connected to the said pipe 5^b and lead to the chambers 17^a and 19^a, respectively, and the valves 8 and 7 are positioned in the said pipes 27 and 29 respectively. The pipes 31 and 32 are connected to the lower level of the said pipes 29 and 27 with the valves 34 and 35 positioned in the said pipes 31 and 32, respectively. The pipe 25 is connected between one end of the hub 22 and the said chamber 17 and a valve 11 is connected in the said pipe 25, the said pipe 25 being connected to the hub 22 leads to the elbow 23^a the elbow 23^a being operatively secured to the said hub 22 by the swivel joint 9, the said elbow 23^a in turn leads to the pipe 6, and the pipe 28 connects between the chamber 17^a and the said pipe 6, with the pipe 37 leading from the bottom level thereof to a drain connection not shown, and the valve 38 is in turn positioned in the said pipe 37. The valves 39 are secured in the bodies 1 and 2 in communication with the chambers 17 and 17^a.

When it is desired to operate the hat renovator the live steam is admitted through the

open valve 10 from the pipe 5 into the pipes 5^b and 5^a, and the said live steam is thence admitted from the pipe 5^b and 5^a into the pipes 27—29, and the pipes 24—26, respectively, and the said live steam may thence be admitted into any of the chambers 17, 17^a, 19, or 19^a, as desired, by opening or closing the valves 11^a, 8, 12 or 7 respectively, and the exhaust steam is in turn allowed to escape through the holes 20 and 21 from the said chambers 19 and 19^a respectively, or to escape through the pipes 25 and 28 from the said chambers 17 and 17^a respectively and exhaust into the pipe 6, and the accumulation of water, or air, being trapped in the lower levels of the pipes 27, 29, 28, 21, or 20, by the condensation of the said steam are in turn drained through the pipes 32, 34, 37 and 30 by opening the valves 35, 34, 38 and 33, respectively.

The front and rear portions of the hat 36 to be renovated are placed between the bodies 1 and 2 as shown in Figure 4, in successive order, and the live steam is turned into the chambers 19 and 19^a as desired to prepare the hat 36 for the dry pressing operation, after the hat 36 has been steamed, the steam is cut off by the valves 12 and 29 respectively, and the dry pressing operation is performed by the live steam contained within the chambers 17 and 17^a adjacent to the said chambers 19 and 19^a, by manually pressing the plate 1 down upon the plate 2, by the handle 3. It is important to note that the bodies 1 and 2 are designed to receive a hat presented only endwise therebetween and to embrace a portion of the hat brim greater than one-half thereof so that a reversal of the hat insures pressing of the entire brim and in a manner to eliminate any line between pressed portions or any unpressed portions.

It will also be seen that should it be desired to press only the top face of the said hat 36 the steaming operation is employed, as hereinbefore described, through the chamber 19 and holes 20 respectively, and the pressing operation is then followed by discontinuing the steaming operation and employing the dry pressing operation, as hereinbefore described, by charging the chamber 17 with steam to heat the body 1, thus when the bodies 1 and 2 are pressed together with the front, or rear, portion of the hat 36 therebetween; and, should it be desired to press only the bottom face of the same hat 36 the said steaming operation is employed through the chamber 19^a and holes 21 respectively, in a similar manner as when pressing the top face of the hat 36, and is in turn followed by the pressing operation by charging the chamber 17^a with steam to heat the body 2, and thus the front, or rear, portion of the said hat 36 may be pressed on the bottom face thereof, by controlling the steam passages and valves as hereinbefore described.

Having thus described my invention what I claim is:

1. A hat renovating machine comprising superposed complemental steaming and pressing members shiftably mounted to occupy a renovating and a non-renovating position, each of the members having an arcuate portion designed to embrace approximately one-half of a hat brim, each member having substantially straight extensions beyond the ends of its arcuate portion, the extensions being substantially parallel, the extensions and the arcuate portion being adapted to receive a hat presented endwise therebetween and together embracing a portion of the hat brim greater than one-half thereof.

2. A hat renovating machine comprising superposed complemental members having chambers therein adapted to receive a heating medium, the lower member being fixed and the upper member pivoted to occupy a renovating position in which it is superimposed on the lower member and a non-renovating position in which it is removed from the lower member, both of the members being of substantially semi-ovate form to receive a hat presented endwise therebetween, and means for supplying steam to the chambers, the means for the upper member comprising inlet and outlet pipes arranged with ends in confronting spaced relation, a hub rotatable on the confronting ends and having passages therein, the upper member being fixed to the hub, and connections between the hub and upper member cooperating with the passages whereby steam from the inlet pipe can be caused to circulate through the chamber of the upper member and to be discharged therefrom into the outlet pipe irrespective of the position of the member.

In testimony whereof I affix my signature.

LOUIS FLICKER.