

No. 658,296.

Patented Sept. 18, 1900.

E. G. TAYLOR.
HAT FINISHING DEVICE.

(Application filed Mar. 12, 1900.)

(No Model.)

2 Sheets—Sheet 1.

Fig. 1.

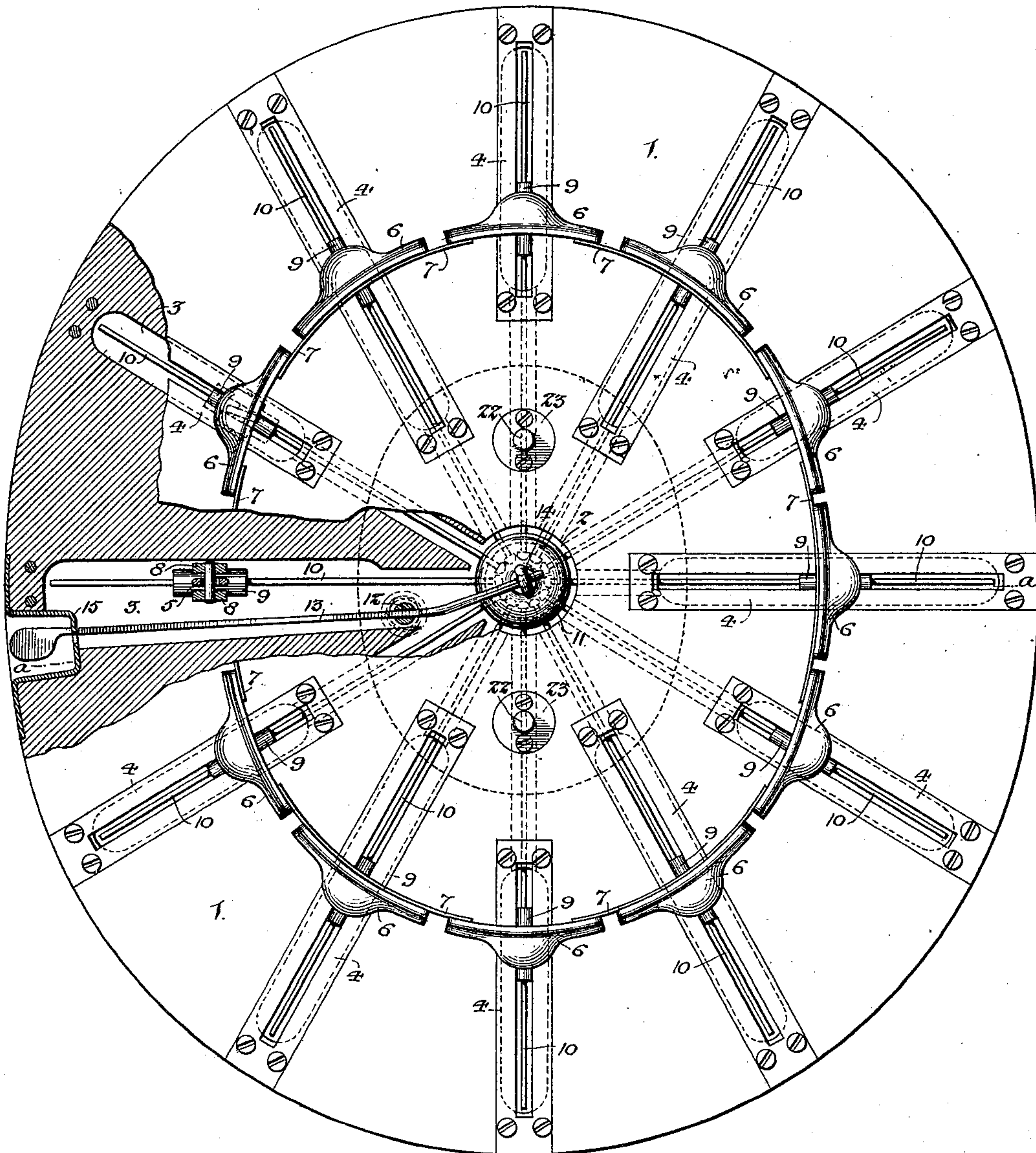
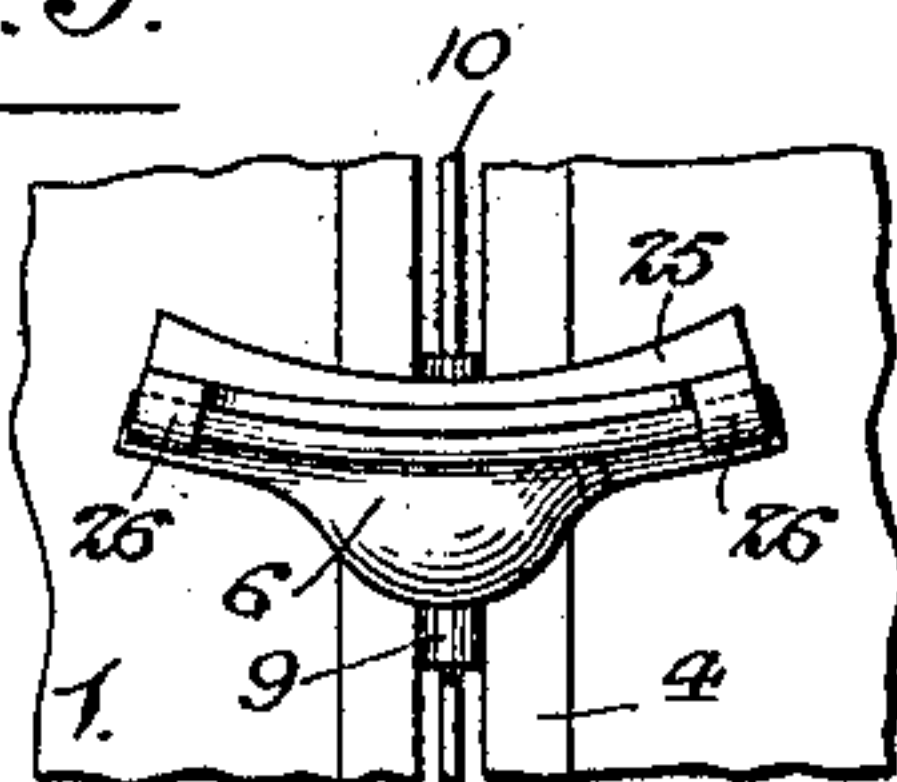


Fig. 5.



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2 Sheets—Sheet 2.

Fig. 2.

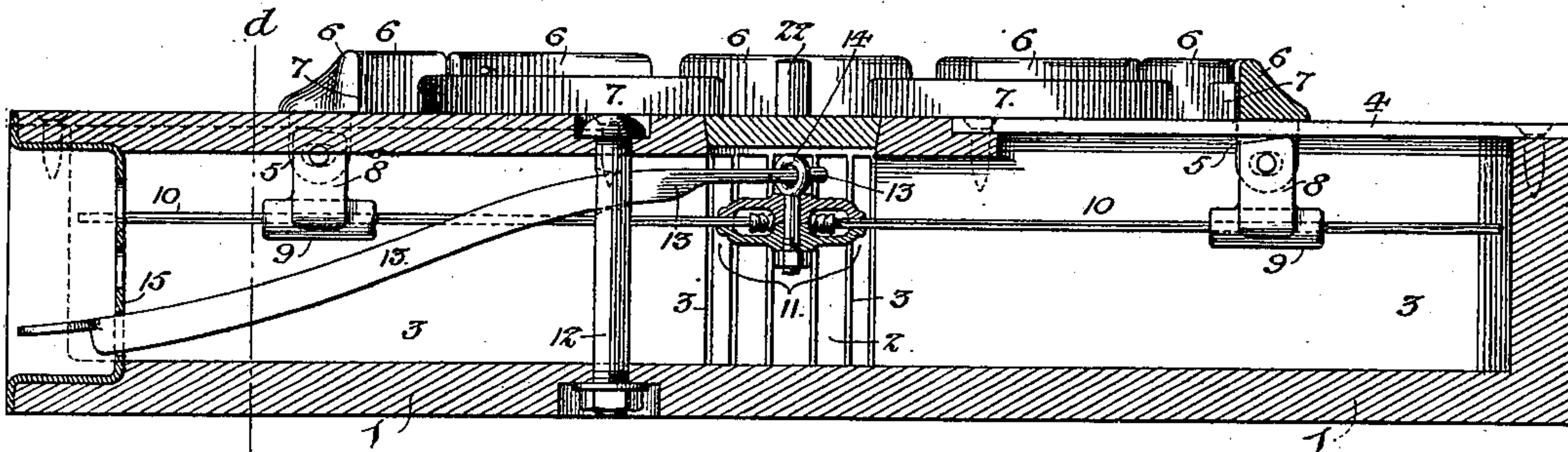


Fig. 3.

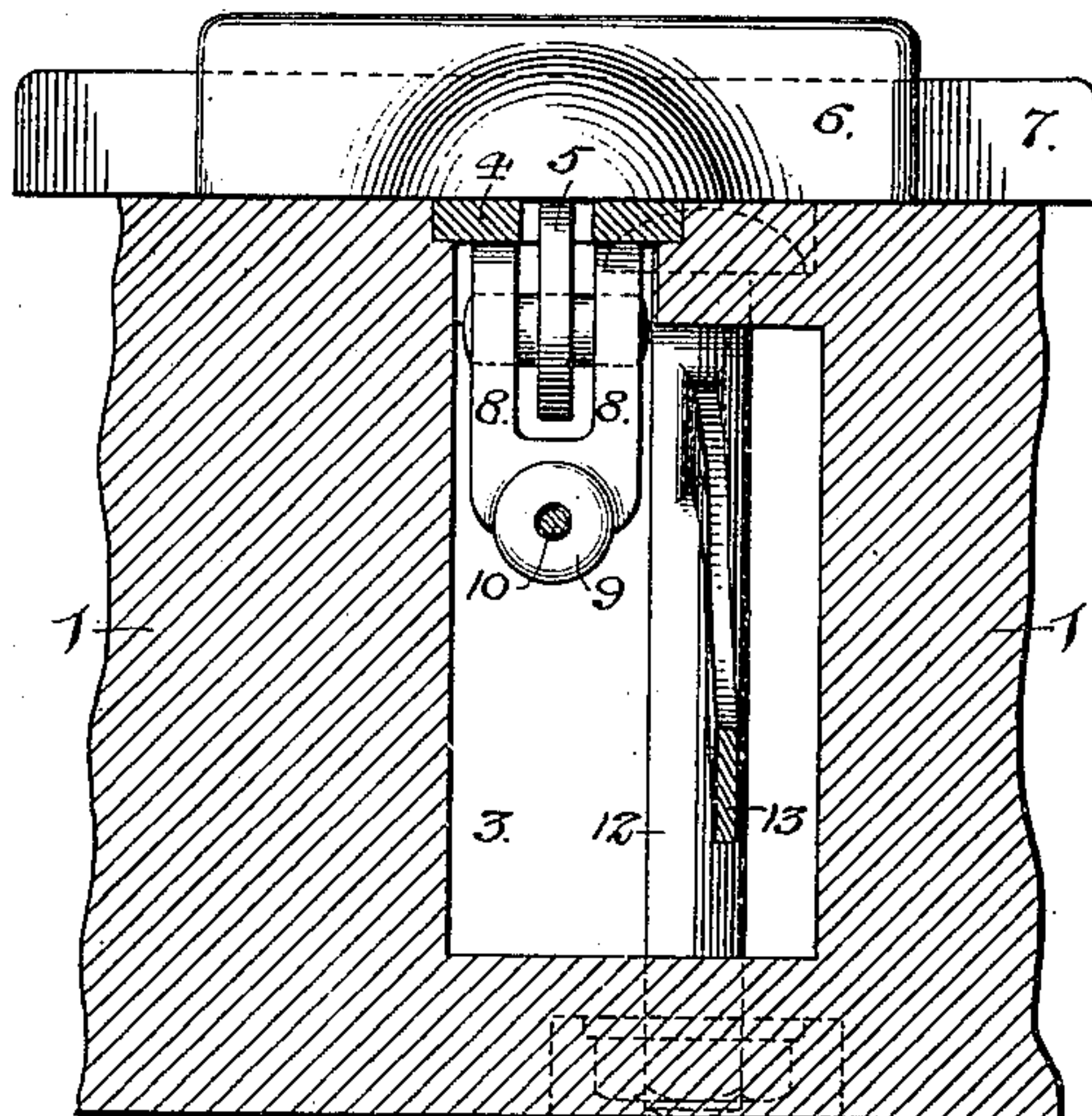
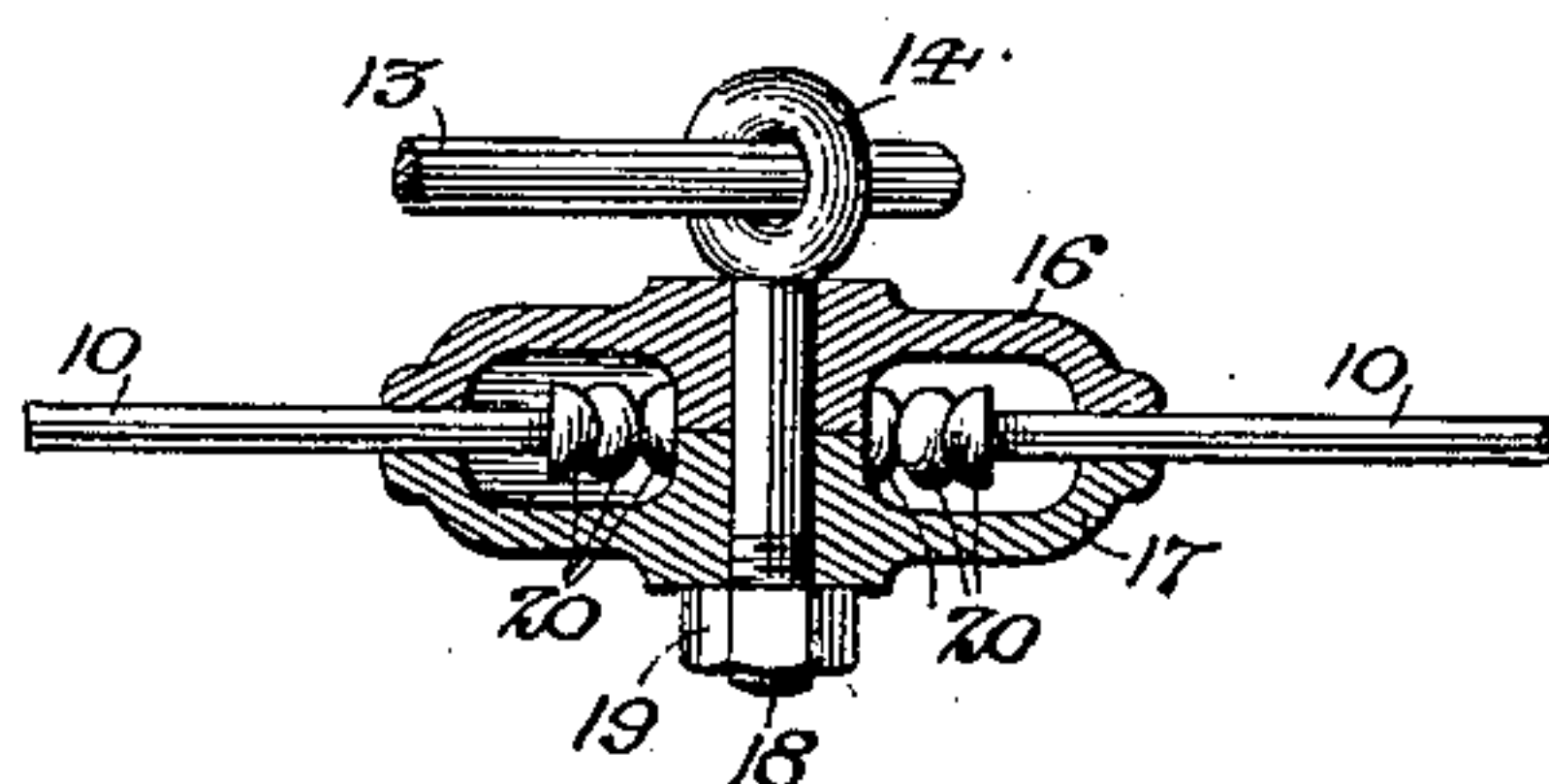


Fig. 4.



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UNITED STATES PATENT OFFICE.

EDGAR G. TAYLOR, OF PHILADELPHIA, PENNSYLVANIA.

HAT-FINISHING DEVICE.

SPECIFICATION forming part of Letters Patent No. 658,296, dated September 18, 1900.

Application filed March 12, 1900. Serial No. 8,359. (No model.)

To all whom it may concern:

Be it known that I, EDGAR G. TAYLOR, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain
5 Improvements in Hat-Brim Gages, of which the following is a specification.

The object of my invention is to provide a readily-adjustable form of gage for determining the proper contour of the outer edge
10 of the brim or tip of a hat made by sewing together braid of straw or other material, an object which I attain in the manner herein-after set forth, reference being had to the accompanying drawings, in which—

15 Figure 1 is a plan view of a hat-brim gage constructed in accordance with my invention with the crown-block removed, the outline of said crown-block being represented in dotted lines. Fig. 2 is a transverse section of the
20 same on the line *a a*, Fig. 1. Fig. 3 is an enlarged transverse section on the line *d d*, Fig. 2. Fig. 4 is an enlarged section of one of the elements of the device, and Fig. 5 is a plan view illustrating a special or supplementary gage-block sometimes employed.

1 represents a base-block which has a central opening 2 and a series of radial slots 3, twelve in the present instance, extending from
25 said opening to or almost to the outer edge of the block. Each of these slots has upon the top of the base-block a slotted cover-plate 4, in which is free to move the stem 5 of a sliding segmental gage-block 6, these gage-
30 blocks or alternate blocks of the set being preferably provided on their inner faces with sheet-metal strips 7, which overlap each other or the adjoining gage-blocks, so as to form a continuous wall or inclosure for the edge of
35 the brim irrespective of the radial adjustment of the blocks 6. The stems 5 of the gage-blocks 6 have such an amount of lateral play in the slots of the plates 4 that considerable twisting or swinging movement of
40 said gage-blocks is permitted in order that they may adapt themselves to the contour of different patterns of hat-brims.

To the downwardly-projecting stem 5 of each gage-block is hung a cam 8, which has a tubular stem 9 for the reception of an elastic rod 10, the inner end of which is engaged
50 by a ring 11, movable vertically in the central opening 2 of the base-block.

One of the slots 3 of the base-block is wider than the others and is further widened at its outer portion, as shown in Fig. 3, and through
55 this wide slot extends a bolt 12, having in it a slot through which can pass a lever 13, the latter engaging at its inner end with an eye 14 at the top of the ring 11 and at its outer end projecting into a casing 15, let into the outer
60 end of said widened slot 3, as shown in Fig. 3, the inner portion of said casing having a notched edge, as shown in Fig. 2, whereby the lever 13 can be held in different positions of
65 adjustment.

The ring 11 is preferably composed of upper and lower portions 16 and 17, held together by the central eyebolt 18 and nut 19, the meeting edges of these portions 16 and 17 of the ring being notched, so as to form openings for
70 the reception of the rods 10, as shown in Fig. 4, each of said rods 10 having at the inner end a head 20, so that longitudinal withdrawal of the rod from the ring is prevented.

The crown-block fits upon suitable dowel-
75 pins 22, carried by and projecting upwardly from plates 23, let into the upper surface of the base-block, so that said crown-block can be readily applied and removed and different sizes and shapes of crown-blocks thus
80 employed.

In the manufacture of straw hats it is important to have a gage surrounding the crown-block, so that the person who is sewing the hat can when the brim is almost com-
85 pleted apply the crown portion of the hat to the crown-block and by noting the relation of the outer course of braid in the brim to the gage determine the proper manipulation of the final course or courses of braid necessary
90 to complete the brim, and it is equally important that this gage shall be susceptible of ready change in shape and size to suit different sizes and shapes of brims which are to be produced. These results are effectually
95 attained by my invention, for it will be noted that when the central ring 11 is depressed by a proper manipulation of the lever 13 it will cause such a swinging of the cams 8 as to grip the slotted guide-plates 4 of the base-block
100 firmly between the sliding gage-blocks 6 and the upper faces of the cams, thereby readily securing said gage-blocks in position, while a lifting of the ring 11 through the medium

of the lever 13 will so swing the cams 8 as to release the slotted guide-plates 4 from their gripping action, and thus permit ready readjustment of the gage-blocks 6.

5 The elasticity of the rods 10, whereby the cams 8 are operated, readily compensates for any variation in movement of the cams such as might be caused by variations in shape of the cam-surfaces or by varying thicknesses of
10 the slotted guide-plates or other causes.

It will be noted on reference to Fig. 1 that some of the slotted guide-plates 4 are longer than others, or, in other words, approach nearer than the others to the central opening
15 of the base-block. The purpose of this is to permit certain of the gage-blocks to move inwardly, so as to serve as gages for the top of a crown or for a very narrow brim. It may be advisable in such cases to supply the
20 gage-blocks 6 with supplementary gage-blocks 25 of shorter radius, as shown, for instance, in Fig. 5, these supplementary gage-blocks being preferably provided with spring-clips 26, whereby they may be readily at-
25 tached to the blocks 6 and as readily removed therefrom when their use is no longer desired.

Having thus described my invention, I claim and desire to secure by Letters Pat-
30 ent—

1. The combination in a hat-brim gage, of a base-block, a series of brim-gages movable from and toward the center of said block, means for locking said gages in position after
35 adjustment, and projecting strips carried by certain of said gages and overlapping adjoining gages so as to form a continuous bearing-surface for the outer edge of the brim, substantially as specified.

40 2. The combination in a hat-brim gage, of a base-block with a series of brim-gages movable from and toward the center of said base-block and independent cams on said brim-gages for locking them in position after ad-
45 justment, substantially as specified.

3. The combination in a hat-brim gage, of a base-block, a series of brim-gages movable from and toward the center of said block, in-
50 dependent cams on said gage-blocks for locking them in position after adjustment, a series of controlling-rods for said cams, and a centrally-located device for engaging with said rods and providing for the simultaneous movement of the same, substantially as speci-
55 fied.

4. The combination in a hat-brim gage, of a base-block, a series of brim-gages movable from and toward the center of said block, in-
60 dependent locking-cams on said gages, a series of elastic rods engaging with said locking-cams, and a centrally-located device engaging with said series of elastic rods and providing for the simultaneous operation of the
65 cams, substantially as specified.

5. The combination in a hat-brim gage, of a base-block, a series of gage-blocks adjust-
able from and toward the center of said base-

block, independent cams on said gage-blocks for locking them in position, a series of rods engaging with said locking-cams, a central
70 device engaging the series of rods, and a lever for imparting movement to said central engaging device, substantially as specified.

6. The combination in a hat-brim gage, of a base-block, a series of brim-gages movable
75 from and toward the center of said block, independent cams on said gages for locking them in position, a series of rods engaging said cams, a central device for engaging the series of rods, a lever for imparting move-
80 ment to said central device, and means for maintaining said lever in different positions of adjustment, substantially as specified.

7. The combination in a hat-brim gage, of a base-block, a series of brim-gages adjust-
85 able from and toward the center of said block, a series of locking-cams for said gages, a series of rods engaging said cams and each having a head at its inner end, and a central engaging device for said rod comprising upper
90 and lower rings, and means for securing the same together, said rings having their meeting edges notched for the reception of the rods, substantially as specified.

8. The combination in a hat-brim gage, of
95 a base-block, a series of brim-gages adjustable toward and from the center of said base-block, a series of locking-cams for said gages, a series of rods engaging said cams, a central device engaging the series of rods and pro-
100 viding for their simultaneous operation, a lever engaging said central device, and a bolt having a slot for the reception of said lever and serving as a fulcrum therefor, substan-
105 tially as specified.

9. The combination in a hat-brim gage, of a base-block having radiating slots therein, a series of brim-gages adjustable from and to-
110 ward the center of said block, slotted plates in which the stems of said brim-gages can move, locking-cams hung to said stems, and means for operating said locking-cams where-
115 by the slotted plates are gripped between the same and the brim-gages, substantially as specified.

10. The combination in a hat-brim gage, of a slotted base-block, a series of brim-gages movable from and toward the center of said
120 block, means for locking said brim-gages in position after adjustment, and slotted plates in which the stems of the brim-gages can move, some of said plates extending closer to the center of the base-block than others, whereby closer adjustment of certain of the
125 brim-gages is permitted, substantially as specified.

11. The combination in a hat-brim gage, of a slotted base-block, a series of brim-gages movable from and toward the center of said
130 block, means for locking said brim-gages in position after adjustment, and supplementary gages having clips whereby they can be secured to the main gages, substantially as specified.

12. The combination in a hat-brim gage, of
a slotted base-block, a series of brim-gages
movable from and toward the center of said
block, means for locking said brim-gages in
5 position after adjustment, and slotted plates
in which the stems of the brim-gages can
move both longitudinally and laterally, sub-
stantially as specified.

In testimony whereof I have signed my
name to this specification in the presence of 10
two subscribing witnesses.

EDGAR G. TAYLOR.

Witnesses:

JAMES C. KRAYE,
F. E. BECHTOLD.