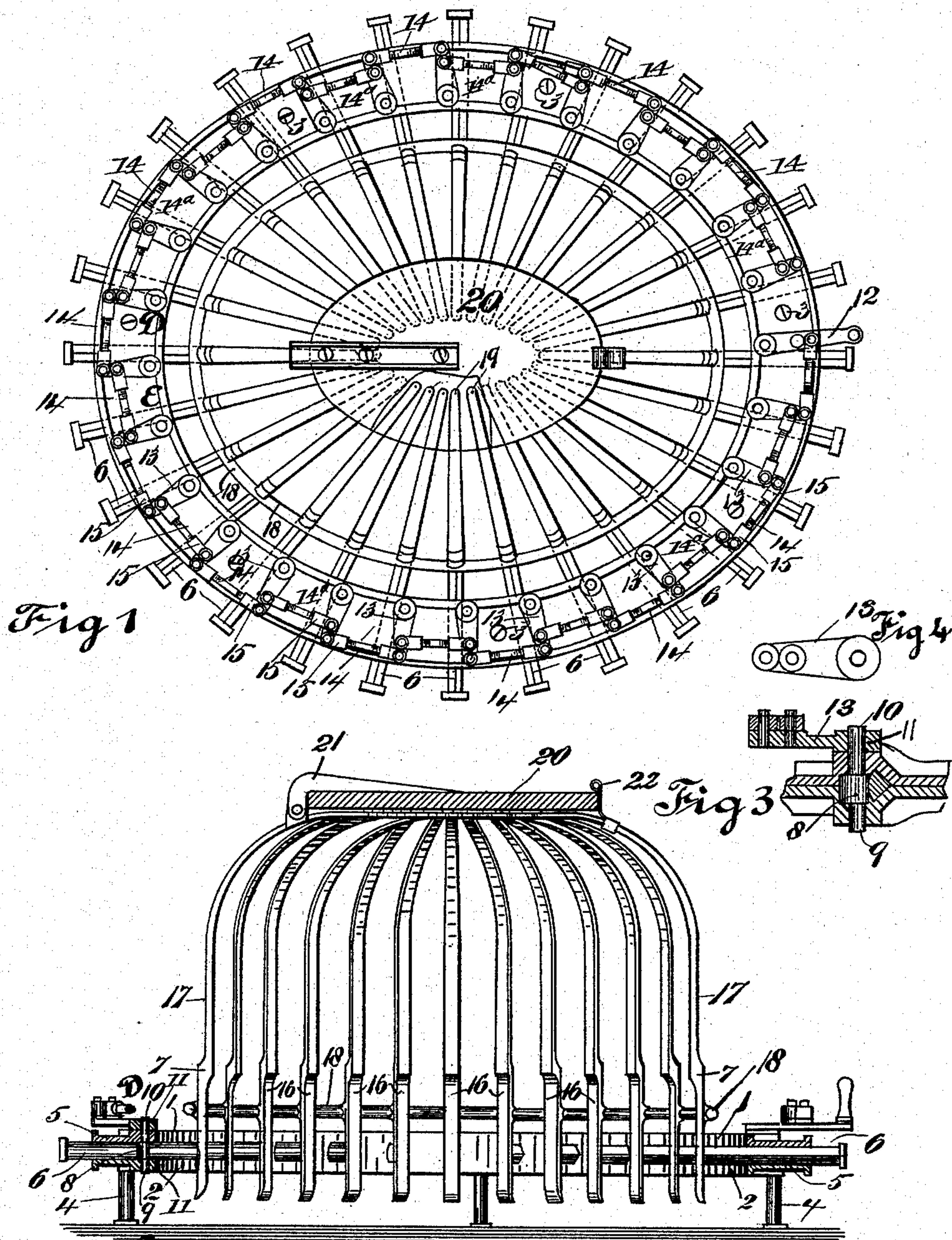


(No Model.)

S. H. ALTLAND & S. MAYER.
HAT CONFORMATOR.

No. 527,472.

Patented Oct. 16, 1894.



Witnesses E
C. P. Wapenham.
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Fig 2

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UNITED STATES PATENT OFFICE.

SAMUEL H. ALTLAND, OF INDIANAPOLIS, INDIANA, AND SIGMUND MAYER,
OF CINCINNATI, OHIO.

HAT-CONFORMATOR.

SPECIFICATION forming part of Letters Patent No. 527,472, dated October 16, 1894.

Application filed October 23, 1893. Serial No. 488,968. (No model.)

To all whom it may concern:

Be it known that we, SAMUEL H. ALTLAND, residing at Indianapolis, in the county of Marion and State of Indiana, and SIGMUND MAYER, residing at Cincinnati, in the county of Hamilton and State of Ohio, citizens of the United States, have invented new and useful Improvements in Hat-Conformators, of which the following is a specification.

Our invention relates to new and useful improvements in hat-conformators, and consists in means for simultaneously locking the bars or ribs or the conformators in their adjusted positions or their assumed positions when fitted to the head of a person and will be hereinafter more fully set forth.

The object of our invention is to provide means whereby each of the ribs or blades of the conformators will simultaneously be locked and held securely in their relative positions by a series of locking levers simultaneously operated by a single manually operated lever, and to provide means whereby the blades or ribs are automatically operated to move inwardly, or toward the axes of the ellipse encircling the periphery of said bars or ribs, when the latter are released. We attain these objects by means of the mechanism illustrated in the accompanying drawings in which similar numbers of reference designate like parts throughout the several views.

Figure 1. is a plan view of the machine showing a portion of the top platen broken off to exhibit the perforating barbs or pins of the conformator bars or ribs. Fig. 2. is a longitudinal sectional elevation of the same. Fig. 3. is an enlarged detail sectional view of the retaining rim showing the locking eccentric and taken through the line D. E. see Fig. 1. and Fig. 4. is a detail plan view of the eccentric crank.

The frame of the machine is composed of an upper retaining rim 1. and a lower retaining rim 2. both of which are elliptical in form and are firmly secured together by suitable securing screws 3. and mounted on the supporting legs 4. The grooves or ways 5. wherein the supporting stem 6. of the conformator bars 7. fit, are formed with their axes located according to the elliptical curvature of the retaining rim.

The bars or ribs 7. are locked or held in position, when adjusted or fitted to the irregular profile of any head, by means of the eccentrics 8. which have their journal ends 9. and 10. journaled in the bearings 11. formed in the top and bottom retaining rims 1. and 2. The eccentrics 8. are operated to simultaneously lock and to unlock by means of the hand crank 12. by which motion is imparted to the cranks, 13, of the eccentrics 8. to which they are firmly secured, by means of the connecting-rods 14.

The connecting-rods 14, are preferably composed of the rods 14^a. the ends of which are each threaded right and left hand and adapted to be screwed into the socket ends of the connecting-rod stubs 15. thereby forming a means whereby each of the cranks 13. may be adjusted to cause the locking eccentrics 8, to bind or lock the stems 6. uniformly and simultaneously, and to compensate for the irregularities in wear and inaccuracies of workmanship, both of which would prevent the simultaneous operation of the binding eccentrics.

The bars or ribs 7 are formed integrally on and at right angles with their supporting stems 6. said ribs having their lower inner conforming sides 16, in vertical alignment with their top outer conforming sides 17. Thus as the lower bearing portion of the conformator bars is set or adjusted to the profile of any head so also are the upper outer sides of the conformators adjusted to measure or adjust the inner periphery of a hat or head covering.

The elastic band 18, preferably of rubber, encircling the ribs or bars 7. is provided for the purpose of simultaneously moving said bars toward the central portion of the retaining ring and to automatically adjust said bars to conform with any profile.

The top ends of the bars 7. are curved or bent inwardly and have the barbs or pins 19, firmly secured on their top outer ends. Over the pins 19, is hinged the platen 20. by the hinge 21. hinged on one of the end bars 7. and locked and held in its closed position by the spring catch 22. The end of the spring catch 22. is looped to loosely receive the end of the end bar 7. thereby permitting an adjustment

of the catch to engage the end of the platen 20. at any changed position of the opposite bar 7. which causes a longitudinal variation of position of the platen.

5 It will be seen that the machine is readily applied to the head of an individual with the lower bearing portions of the conforming bars 7. encompassing the head and adjusting themselves to any irregularities of profile and in
10 which adjusted position they are simultaneously locked by moving the lever 12. as previously described. The conformators are now removed, the platen 20. is raised and paper is inserted between said platen and the per-
15 forating pins 19. and said platen is pressed downwardly on and over the paper to cause it to be perforated thereby forming a tem-
20 plet by which and to which the conformator bars 7. may be adjusted or set on any future occasion and a hat or other head covering fitted thereto.

Having thus fully described the nature and construction of our invention, what we claim as new and useful, and desire to cover by Letters Patent of the United States of America
25 therefor, is—

1. In a hat conformator, the combination with a retaining rim composed of upper and lower portions or sections and having a series
30 of grooves or ways formed transversely on their inner bearing faces, said upper grooves adapted to register with said lower grooves, of a series of vertical conformator bars having outwardly projecting stems formed hori-
35 zontally on said vertical bars and near the

bottom ends thereof, and adapted to freely fit and to slide longitudinally in said grooves, a series of clamping eccentrics having their axes disposed transversely with the said stems and adapted to simultaneously engage said
40 supporting stem, and suitable connecting rods and eccentric cranks for operating said eccentrics, substantially as and for the purpose set forth.

2. In a hat conformator, the combination 45 with a retaining-rim composed of upper and lower elliptical sections having a series of diverging grooves formed in their inner bearing faces and adapted to register, of a series of vertical conformator bars having outwardly
50 projecting stems formed integral on the outer sides of said bars at or near the bottom ends thereof, and adapted to loosely fit said grooves formed in said rim, said bars having their top
55 outer bearing sides in vertical alignment with their bottom inner bearing sides, substantially as and for the purpose set forth.

In testimony whereof we have hereunto set our hands in the presence of two subscribing witnesses.

SAMUEL H. ALTLAND.
SIGMUND MAYER.

Witnesses as to signature of Samuel H. Altland:

THOMPSON R. BELL,
JNO. GEO. THURSTON.

Witnesses as to signature of Sigmund Mayer:

ADOLPH W. SOMMERFIELD,
ADOLPH M. BROWN.