

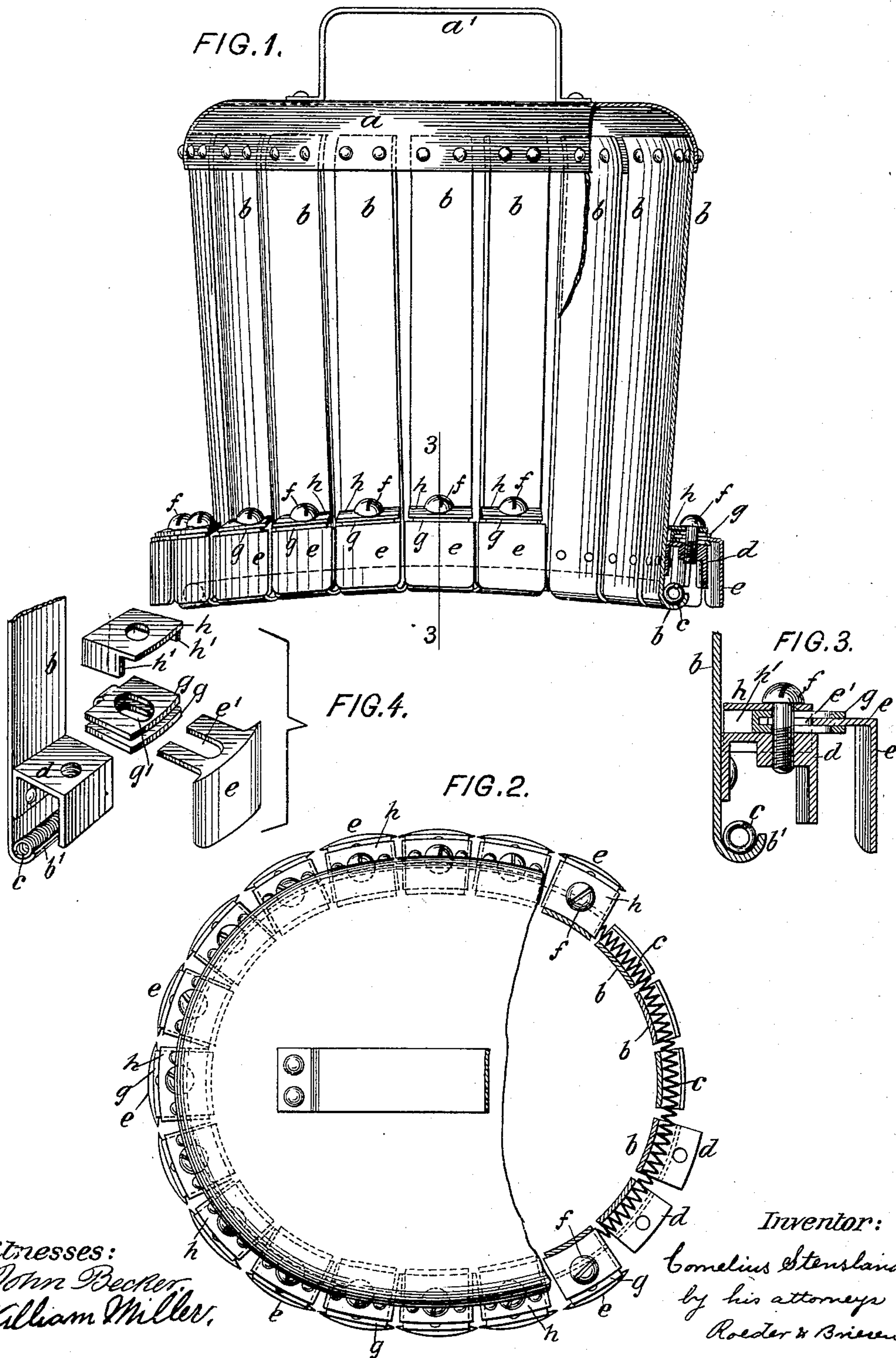
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Patented Dec. 12, 1899.

C. STENSLAND.
APPARATUS FOR CURLING HAT BRIMS.

(Application filed May 16, 1899.)

(No Model.)



UNITED STATES PATENT OFFICE.

CORNELIUS STENSLAND, OF NEW YORK, N. Y.

APPARATUS FOR CURLING HAT-BRIMS.

SPECIFICATION forming part of Letters Patent No. 638,817, dated December 12, 1899.

Application filed May 16, 1899. Serial No. 717,007. (No model.)

To all whom it may concern:

Be it known that I, CORNELIUS STENSLAND, a citizen of Norway, and a resident of New York, (Brooklyn,) county of Kings, and State of New York, have invented certain new and useful Improvements in Apparatus for Curling Hat-Brims, of which the following is a specification.

This invention relates to an improved apparatus for guiding the curling-iron along the rim of a hat to turn up the curl.

My improved apparatus is constructed to fit hat-crowns of various sizes, and may be adjusted to produce differently-sized curls, so that one apparatus may be used to curl hats of all the prevailing sizes and styles.

In the accompanying drawings, Figure 1 is a side view, partly in section, of my improved apparatus for curling hat-brims. Fig. 2 is a plan, partly in section, thereof; Fig. 3, an enlarged section on line 3 3, Fig. 1; and Fig. 4, a perspective view of various details.

The letter *a* represents the oval top plate of the apparatus, to the periphery of which are secured a number of downwardly-extending flat spring-arms *b*. The lower ends of these arms are turned up, as at *b'*, to form seats for an endless coiled spring *c*, which in this way yieldingly connects the arms. Thus it will be seen that when the apparatus is projected over a hat-crown the lower ends of the arms *b* will be spread apart more or less to snugly fit such crown.

To each arm *b* there is riveted, a short distance above spring *c*, a perforated plate *d*. This plate constitutes the seat for an outwardly or radially adjustable L-shaped plate or guide *e*, the vertical flange of which forms the contact-surface for the curling-iron.

The parts *d* *e* are connected by a screw *f*, which passes through an elongated slot *e'* of guide *e*. Thus the guide may be drawn out radially to any desired extent by first slackening the screw. The radial play of the guide *e* thus produced may be increased by means of a U-shaped clamp *g*, placed upon the support *d* and adapted to embrace the horizontal arm of guide *e*. The screw *f* passes through an elongated slot *g'* of this clamp, and in order to obtain the extreme outer position of the guide *e* both the guide and clamp are

drawn outward to their maximum extent, Fig. 3. Between this extreme outermost and the innermost position of guide and clamp there are of course an infinite number of intermediate positions, so that the guides *e* may be set at any desired distance from the edge of the hat-brim to form curls of any desired width.

The clamp *g* is covered by a perforated top plate *h*, which is also engaged by the screw *f* and which is provided with side flanges *h'*. These flanges serve to guide the parts *g* *e* in a proper rectilinear direction during their adjustment and also prevent the guides *e* from being tilted by contact with the curling-iron.

In use the guides *e*, and, if necessary, the clamps *g*, are drawn out more or less in order to adjust them to the prevailing style. The apparatus is then projected by its handle *a'* over the crown of the hat to be curled, so that the lower curved edges of the guides *e* will rest upon the hat-brim. The curling-iron is now conducted along the guides *e* around the brim to turn up the proper curl.

The advantages of my apparatus are that the hat may be curled by unskilled labor and that a single apparatus may be employed upon all the sizes and changing styles of hats.

What I claim is—

1. An apparatus for curling hat-brims composed of a series of arms adapted to encompass a hat, supports formed on such arms near the lower ends thereof, flanged guide-plates adjustable on said supports, and means for locking the guide-plates in position, substantially as specified.

2. An apparatus for curling hat-brims composed of a series of arms adapted to encompass a hat, supports formed on such arms near the lower ends thereof, clamps resting upon said supports, radially-adjustable flanged guide-plates engaging the clamps, flanged top plates engaging the guide-plates, and means for locking the top plates, clamps and guide-plates in position, substantially as specified.

Signed by me at New York city, New York, this 15th day of May, 1899.

CORNELIUS STENSLAND.

Witnesses:

WILLIAM SCHULZ,
F. V. BRIESEN.