

No. 666,546.

Patented Jan. 22, 1901.

L. NAUNDORF.
APPAREL HAT.

(Application filed Aug. 2, 1900.)

(No Model.)

Fig. 1.

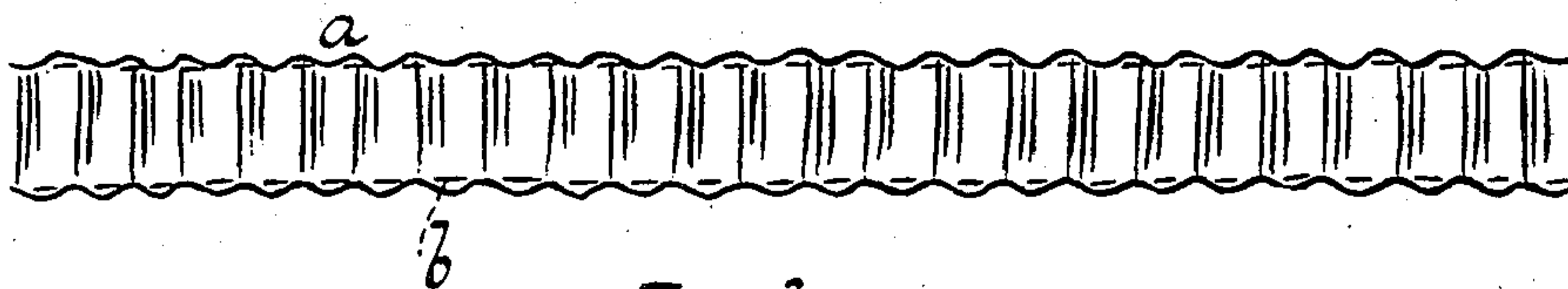


Fig. 3.

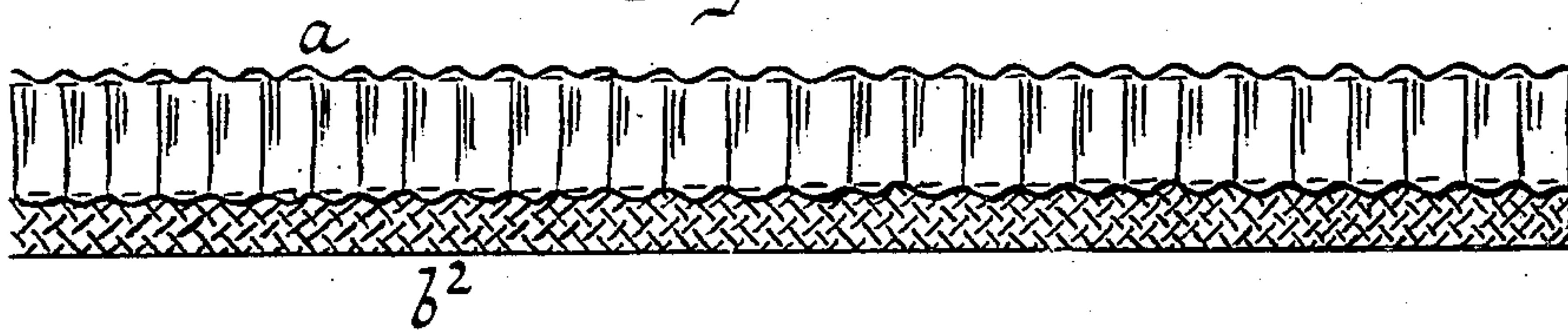


Fig. 2.

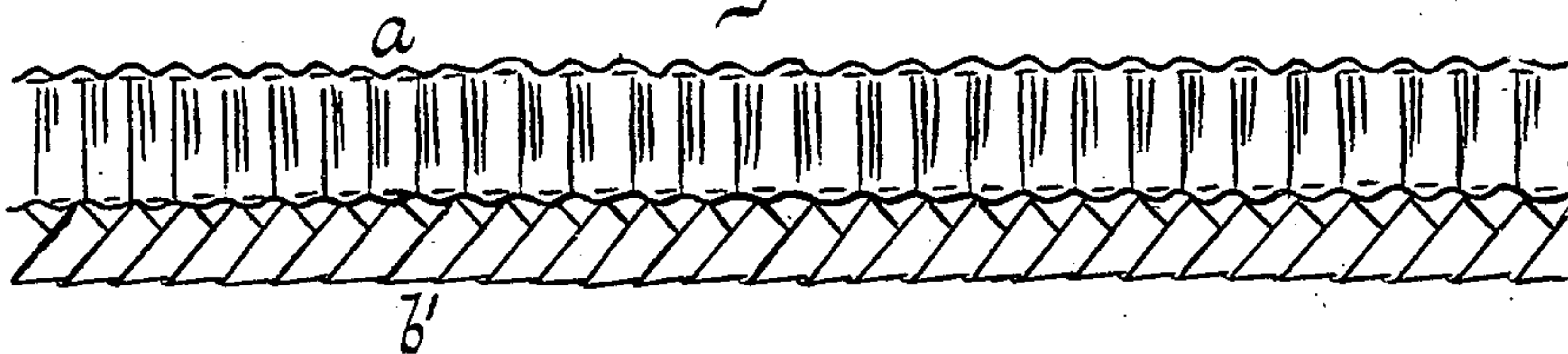
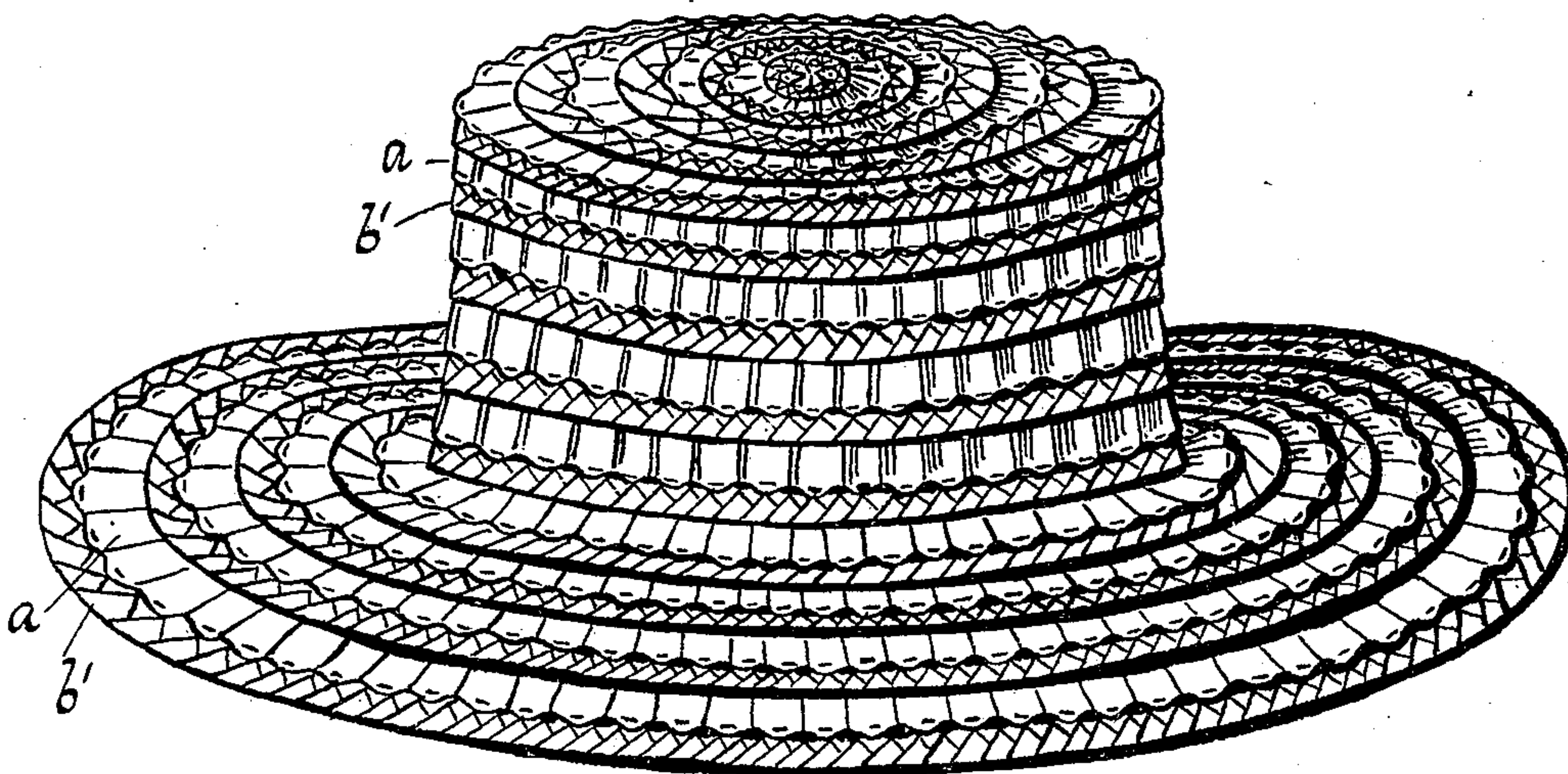


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

LAURA NAUNDORF, OF LEIPSIC-STÖTTERITZ, GERMANY.

APPAREL-HAT.

SPECIFICATION forming part of Letters Patent No. 666,546, dated January 22, 1901.

Application filed August 2, 1900. Serial No. 25,689. (No model.)

To all whom it may concern:

Be it known that I, LAURA NAUNDORF, a subject of the King of Saxony, residing at Leipsic-Stötteritz, in the Kingdom of Saxony and German Empire, have invented new and useful Improvements in Hats, of which the following is a specification.

This invention relates to hats, caps, or the like made from strips of paper or like material, which strips are plaited, so as to be capable of being sewed together in spiral or screw-threaded form. The plaited strips are secured against stretching or flattening as well during transportation as during working by suitable means, such as a blind stitch at the edge of a braided or woven tape or like strip sewed or secured to the plaited strip.

This invention is illustrated in the annexed drawings, in which—

Figure 1 shows a plaited strip provided with blind stitches. Fig. 2 shows a like strip provided with a braided strip. Fig. 3 shows a like strip provided with a woven strip. Fig. 4 shows a hat formed from such strips as above named.

In carrying out the invention the material—such as paper, pasteboard, cellulose, or the like—is cut into strips, and the latter are then given any suitable form or appearance, as by being cut out or serrated or impressed with a suitable design. The strips are then run through between the rollers of a plaiting-machine to be transversely ruffled or fluted. Such plaited strips during transportation or working would again become flat or lose their undulations, thereby becoming unsuitable for the manufacture of hats and the like. To avoid this objection, the undulation is fixed or secured by means of a blind stitch *b*, run the length of the strip *a*, Fig. 1, or by a strip or tape of braided or woven material being sewed or secured to the plaited strip. In Fig. 2 is shown such a double strip, a braided strip *b'* being sewed to the plaited strip *a*. In Fig. 3 is shown a double strip in which a woven tape *b²* is sewed against the plaited strip *a*. By means of such a double strip it is practicable to manufacture hats, caps, and the like of desired shape and which resemble the usual straw hats. Head-gear of this kind has the advantage over straw hats that it can be made of suitable color and that it is lighter than

straw hats. By applying a coating of celluloid, varnish, or the like these hat-strips can be made waterproof, so as to be capable of being worn in the rain. The treatment with celluloid, varnish, glue, and similar material also enables the strip to retain its form after pressure. Hats made from such strips can be impregnated or starched, so as not to lose the imparted form.

In talking of blind stitches, it is understood that the stitches simply engage the strip to lock the undulations; but such stitches do not serve for attaching the strip.

What I claim as new, and desire to secure by Letters Patent, is—

1. As a new article of manufacture a strip for hats, said strip being transversely corrugated or fluted and having said corrugations or flutings locked or secured against flattening substantially as described.

2. As a new article of manufacture a strip for hats, said strip being transversely corrugated or fluted and having said corrugations or flutings locked or secured against flattening said strip being coated with a waterproofing material substantially as described.

3. As a new article of manufacture a strip for hats, said strip being transversely corrugated or fluted and having said corrugations or flutings locked or secured against flattening said strip being treated with celluloid or solution to be rendered bright and waterproof substantially as described.

4. As a new article of manufacture a strip for hats, said strip being transversely corrugated or fluted and having said corrugations or flutings locked or secured against flattening by stitches made to engage said strip substantially as described.

5. As a new article of manufacture a strip for hats, said strip being transversely corrugated or fluted and having said corrugations or flutings locked or secured against flattening by a braided paper strip sewed to the corrugated strip substantially as described.

6. As a new article of manufacture a strip for hats, said strip being transversely corrugated or fluted and having said corrugations or flutings locked or secured against flattening by a braided strip or tape sewed to the corrugated strip substantially as described.

7. A strip adapted for use in the manufac-

ture of hats, consisting of a strip of transversely corrugated or fluted paper provided with means to prevent the corrugations or flutings from flattening, substantially as set
5 forth.

8. A strip adapted to use in the manufacture of hats, consisting of a transversely corrugated or fluted paper provided with means to prevent the corrugations or flutings from

flattening and coated with a suitable water-proof material.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

LAURA NAUNDORF.

Witnesses:

EDWARD BRESLAU,
RUDOLPH FRICKE.