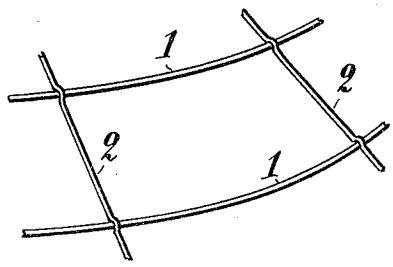
J. C. BARTZ.

METHOD FOR THE PUTTING TOGETHER OF THE METAL WIRES IN SHAPES FOR LADIES' HATS.

APPLICATION FILED MAY 2, 1911.

1,012,968. Patented Dec. 26, 1911.



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JOHAN CHRISTOFFER BARTZ, OF COPENHAGEN, DENMARK.

METHOD FOR THE PUTTING TOGETHER OF THE METAL WIRES IN SHAPES FOR LADIES' HATS.

1,012,968. Specification of Letters Patent. **Patented Dec. 26, 1911.**

Application filed May 2, 1911. Serial No. 624,654.

To all whom it may concern:

Be it known that I, JOHAN CHRISTOFFER BARTZ, citizen of the Kingdom of Denmark, and a resident of Hostrupsvej 10, Copenhagen, Denmark, electrician, have invented new and useful Improvements in Methods for the Putting Together of the Metal Wires in Shapes for Ladies' Hats, of which the following is a specification.

The ladies' hats now in use consist, as a rule, of a metal wire shape, which, in the majority of cases is covered with cotton or metal threads or plaited or twisted together, the vertical stiffeners being twisted in a knot around the horizontal ones or vice versa. This method of procedure is a very detailed one, and as a consequence expensive, not least on account of the fact that it cannot be done by machinery. Then it must be added that the wires easily get out of place in relation to one another, whereby the shape loses its original form. Furthermore, it should be remarked that the wires are easily affected by damp and rust, so that they destroy the material of which the hat is made.

My invention treats of putting together the wires by welding, which is considerably more expeditious and much cheaper.

The welding itself is done by the well-known autogenous process, but this does not, however, constitute a part of my invention.

The characteristic feature of the invention consists in placing the wires together crossing each other, upon a firm metal foundation. Through the subsequent heating caused by the welding, the wire lying on top sinks down on both sides of the underneath one, on account of the softening of the metal produced by the heating. By this means all the wires on all sides around the places where they are to be brought together will lie in the same plane.

The invention is shown on the accompanying drawing which shows a portion of the shape for a lady's hat, seen from above.

1 are the bent steel wires and 2 the radial wires.

It will be seen from the drawing that the radial wires 2 overlap the bent wires, but because of welding against a firm foundation, the wire 1 on both sides of each stiffener is sunk into the same plane. By this method of procedure, covered wires cannot be used, and the shape, therefore, can be conveniently coated with one or other suitable coating.

What I claim, and desire to secure by Letters Patent, is:

The method for securing together the metal wires in shapes for ladies' hats, consisting in placing the wires upon a firm foundation with the wires crossing each other, and then applying the welding heat at the crossing, thus causing the top wire to sink at each side of the crossing point to the same plane as the lower one.

Signed by me at Copenhagen, Denmark, this 18th day of April, 1911.

JOHAN CHRISTOFFER BARTZ.

Witnesses:
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