

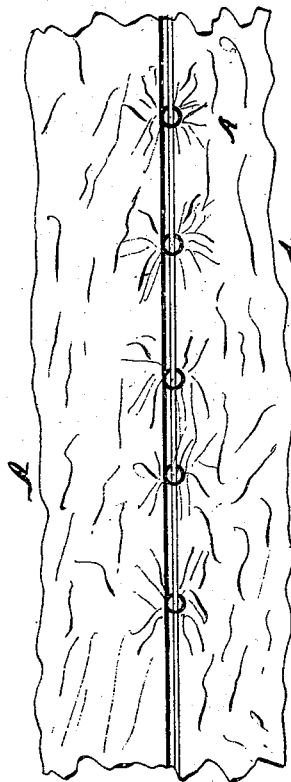
*J. D. Oppenheimer,*

*Hair Puff.*

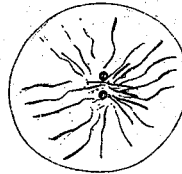
*No. 110,782.*

*Patented Jan. 3. 1891.*

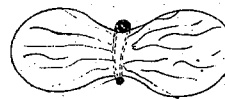
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



**Witnesses.**

*Le. L. Everts*  
*F. G. Hutchinson*

**Inventor.**

*J. D. Oppenheimer*  
*per Alexander Mason*

*Atty.*

# United States Patent Office.

JOSEPH D. OPPENHEIMER, OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 110,782, dated January 3, 1871.

## IMPROVEMENT IN HAIR-PUFFS OR ROLLS.

The Schedule referred to in these Letters Patent and making part of the same.

I, JOSEPH D. OPPENHEIMER, of the city and county of Philadelphia, in the State of Pennsylvania, have invented an Improvement in the Manufacture of Hair-Puffs or Rolls, of which the following is a specification:

Figure 1 of the drawing represents the section of a hair-puff, embodying my improvement;

Figure 2 represents an end or sectional view of the puff completed; and

Figure 3 shows the end of the puff, wire, and cord, connecting the parts together.

A is the wool which the roll or puff is made of.

B is the wire the wool is attached to.

C, is the twine or thread, by means of which the wool A is sewed on the wire B.

Any one versed in the art of manufacturing hair-puffs or rolls knows that the usual way is to attach the wool, done up or carded in small bits, to the wire, by means of other wires or thread, the wool having to be carded over again when the puff is made, so as to give it the necessary or desired shape.

I have found that, by carding up the wool by machinery in laps, and cutting it into rolls, I can easily

sew it on the wire B, and the wool thus treated requires no after carding.

Therefore, and while my method gives a roll or puff just as substantial as when made by the old usual way, it saves considerable time and labor, and also waste of material.

I am aware, as above mentioned, that in the manufacture of hair-puffs or rolls, the wool is always attached to a wire, and I lay no claim on this; but I am not aware that rolls or puffs have ever yet been made by stitching the wool to the wire after having carded it (the wool) in laps by machinery, as aforesaid; and

I claim as a new article of manufacture—

A hair-roll or puff, when the wool, after having been carded in laps by machinery or otherwise, is sewed on the wire B in the manner above set forth and described.

J. D. OPPENHEIMER.

Witnesses:

LIONEL D'EPINEUIL,

M. LITTLEBOY.