

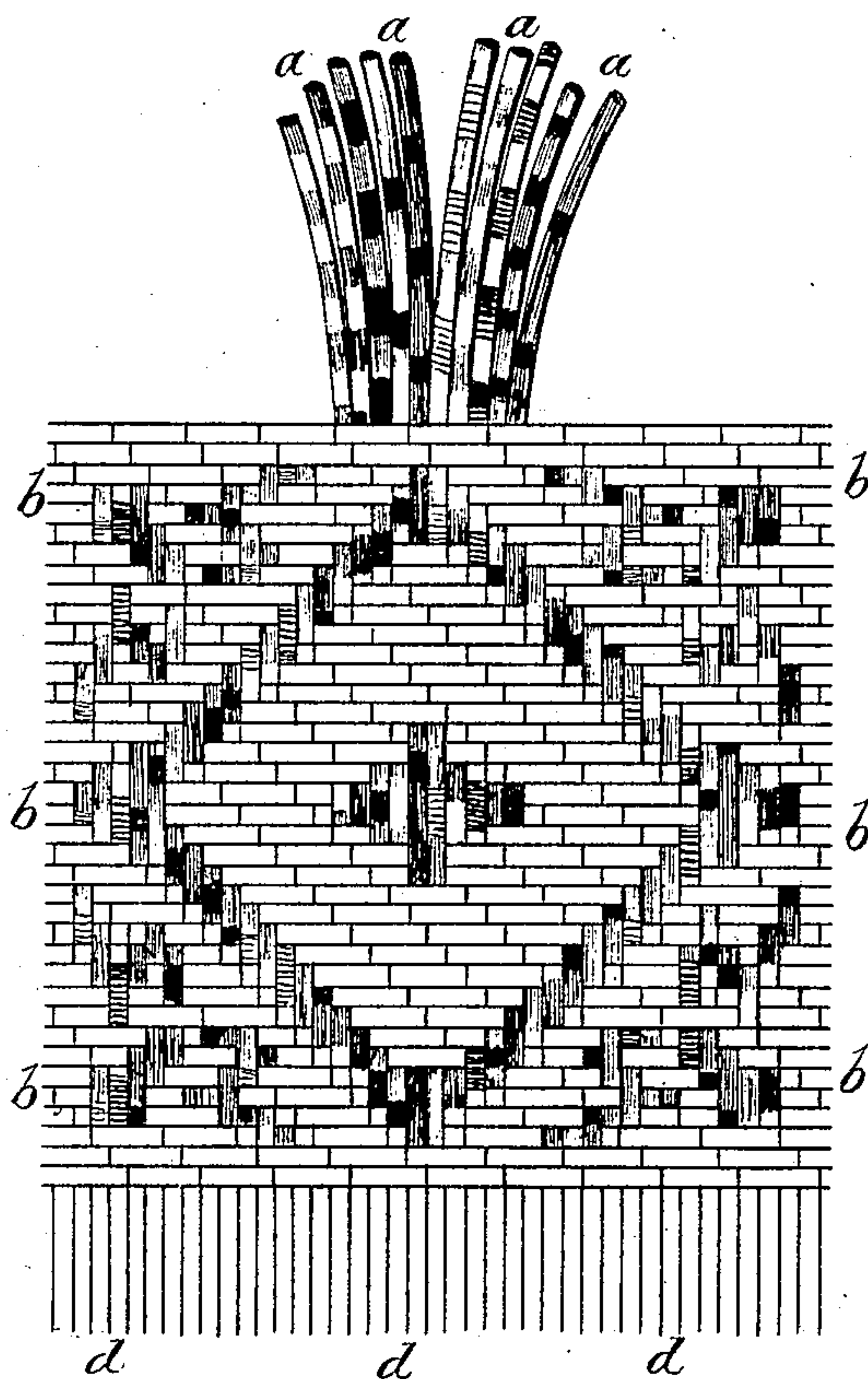
(No Model.)

C. H. LANDENBERGER.

IMITATION INDIA SHAWL, &c.

No. 245,513.

Patented Aug. 9, 1881.



Witnesses,

Arner F. McCormick

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UNITED STATES PATENT OFFICE.

CHARLES H. LANDENBERGER, OF PHILADELPHIA, PENNSYLVANIA.

IMITATION INDIA SHAWL, &c.

SPECIFICATION forming part of Letters Patent No. 245,513, dated August 9, 1881.

Application filed April 15, 1881. (No model.)

To all whom it may concern:

Be it known that I, CHARLES H. LANDENBERGER, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented an Improvement in Imitation India Shawls and in the production of the same, of which the following is a specification.

The object of my invention is to make a cheap imitation of an India or Cashmere shawl; and this object I attain in the manner which I will now proceed to describe, reference being had to the accompanying drawing, the figure in which is a diagram illustrating the mode of carrying out my invention.

India or Cashmere shawls, as usually made, comprise a solid or striped ground composed of warp-threads and figures composed of many different colors, and consisting, in the main, of weft-threads. In making such a shawl as many different weft-threads must be used as there are different colors in the figures, and a tedious and expensive method of weaving must be adopted in order to properly expose the numerous weft-threads on the surface.

In carrying out my invention I discard the usual process of manufacture, and use warp-threads for producing the figure and weft-threads for forming the ground or stripe, each warp-thread being dyed or printed so as to present a succession of spots of different colors. The colors employed are those common in the class of shawls to be imitated, namely, black, white, orange, blue, red, and green; but in order to reduce the expense of dyeing or printing the warp-threads it is desirable that none of said threads shall have more than three colors. I have in practice obtained very good results by using four sets of warp-threads, one set having spots of black, white, and orange, another spots of black and red, another spots of red, white, and blue, and another spots of red, white, and green. These spotted warp-threads are wound on the warp-beam in the same manner as ordinary warps, the number and arrangement of the different warp-threads

being governed by the desired character of the effect to be produced. Thus an equal number of each style of warp-threads may be used, and the sets may be alternated throughout the width of the fabric, or more of one style of warp may be used than of the other styles, as the taste of the manufacturer may suggest.

In the drawing, *a* represents the spotted warps, and *b* wefts. The warps are operated by the jacquard, as usual, to form the figure, and the wefts are thrown in after each operation of the jacquard.

In order to prevent floating of the weft-threads where the figures do not occur I employ fine warp-threads *d*, which are interwoven with the wefts, as shown, so as to bind the same and render the fabric firm throughout.

It will be evident that the production of shawls by this method can be effected by a plain and simple weaving operation in place of the tedious and costly operations usually required, and the cost of production is thus reduced to a minimum.

I claim as my invention—

1. The mode described of producing a cheap imitation of an India or Cashmere shawl, said mode consisting in combining spotted warp-threads forming the figures with plain weft-threads forming the ground-work, as set forth.

2. As a new article of manufacture, an imitation India or Cashmere shawl, having a ground-work of plain weft-threads and figures of spotted warp-threads, as set forth.

3. The combination of the spotted warp-threads forming the figures, the plain weft-threads forming the ground, and fine binding warp-threads, as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHARLES H. LANDENBERGER.

Witnesses:

ARMER F. MCCORMICK,
HARRY SMITH.