

W. COE.
Hoop-Skirts.

No. 145,845.

Patented Dec. 23, 1873.

fig. 1

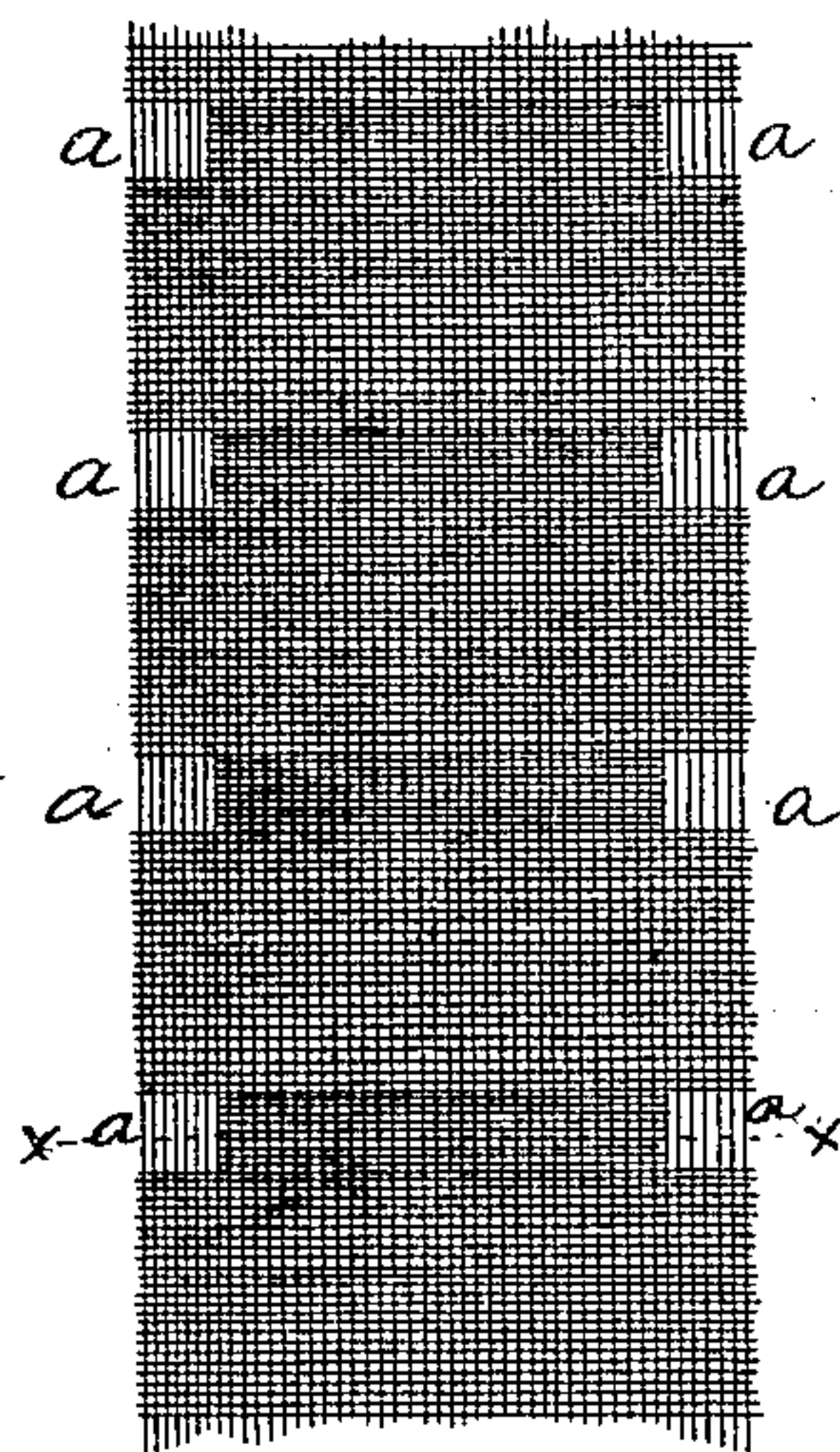
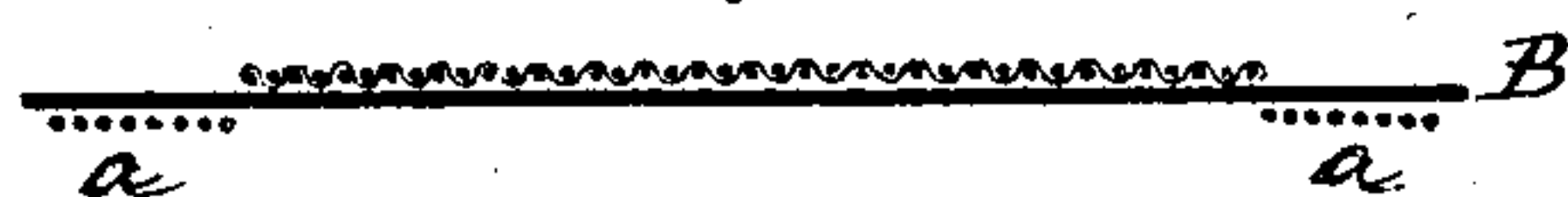


fig. 2



Witnesses.

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UNITED STATES PATENT OFFICE.

WARD COE, OF NEW HAVEN, CONNECTICUT.

IMPROVEMENT IN HOOP-SKIRTS.

Specification forming part of Letters Patent No. **145,845**, dated December 23, 1873; application filed November 22, 1873.

To all whom it may concern:

Be it known that I, WARD COE, of New Haven, in the county of New Haven and State of Connecticut, have invented new Improvement in Hoop-Skirt Tape; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a front view, and, in Fig. 2, a transverse section on line *xx* with the spring inserted.

This invention relates to an improvement in the tapes which are used to support the springs in hoop-skirts. The usual method of weaving these tapes has been to form a pocket at the points in the tape where the springs were to be inserted. This necessitates a double filling over that portion which forms such pockets.

The object of this invention is to dispense with this double filling; and it consists in a tape in which the filling is narrower at the points where the springs are to be secured, and this is done by throwing out the warp-threads at those points, and from each edge inward, to the extent of contraction of the filling required, so as to leave those warp-threads unfilled at those points.

In producing my improved tape I arrange

the warps in the usual manner, several of the threads at each edge being controlled by the mechanism of the loom independent of the other threads, substantially upon the jacquard plan, so that at certain predetermined points *a* the threads so controlled will be dropped out for a certain number of fillings; but between these points *a* the said threads will be interwoven as the other threads. Hence, in weaving, that portion of the tape between the points *a* will be filled to the extreme edge, while the portion *a* will be filled the same, less the dropped threads, as seen in Fig. 1, the dropped threads coming in again after the required space is passed, thus leaving the dropped threads over the portion *a* unfilled.

In use, the spring *B* is inserted over the unfilled threads *a* of one side, under the filled portion, thence out over the unfilled threads upon the opposite side, as seen in Fig. 2, and secured by a spangle or other known device.

I claim—

As a new article of manufacture the herein-described hoop-skirt tape consisting of a single fabric having several of the warp-threads at certain points upon each edge unfilled, substantially as specified.

WARD COE.

Witnesses:

J. H. SHUMWAY,
A. J. TIBBITS.