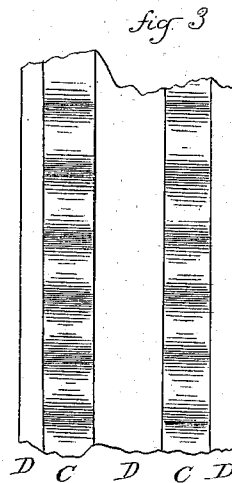
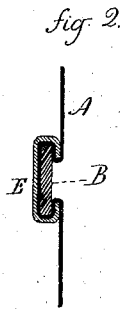
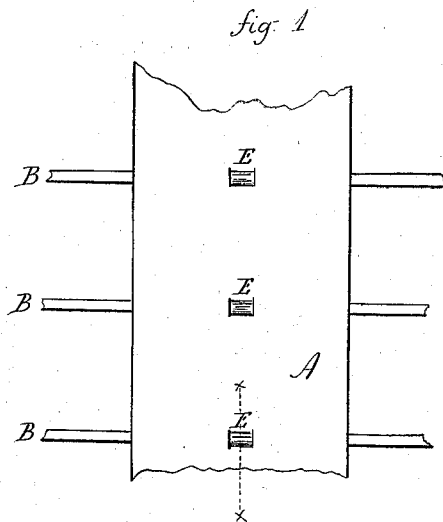


G. W. HUBBELL.

Hoop-Skirts.

No. 147,399.

Patented Feb. 10, 1874.



Witnesses.
J. W. Shumway
A. J. Tibbitts

Geo. W. Hubbell
Inventor
By Atty.
Wm. D. Earle

UNITED STATES PATENT OFFICE.

GEORGE W. HUBBELL, OF DERBY, CONNECTICUT, ASSIGNOR TO HIMSELF
AND JOHN T. HILLHOUSE, OF SAME PLACE.

IMPROVEMENT IN HOOP-SKIRTS.

Specification forming part of Letters Patent No. **147,399**, dated February 10, 1874; application filed
December 27, 1873.

To all whom it may concern:

Be it known that I, GEORGE W. HUBBELL, of Derby, in the county of New Haven and State of Connecticut, have invented a new Improvement in Hoop-Skirts; 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 of one of the tapes with the springs attached; Fig. 2, a vertical section on line *x x*, enlarged; and in Fig. 3, a front view of a tape with two fulled sections.

This invention relates to an improvement in the manufacture of hoop-skirts and tapes for the same, which are applicable to other purposes; and the invention consists in a skirt formed from a series of springs or hoops and tapes, having one or more sections longitudinally fulled, the springs lying upon one side of the tapes, and secured thereto by a metallic clasp upon the opposite side, closing the fullest portion at the point of attachment over the spring, as more fully hereinafter described.

By the term "skirt" I wish to be understood as embracing skirts, bustles, and other articles formed in similar manner.

A is the tape; B, the springs, more or less in number, arranged relatively to each other in the usual manner. The tape is woven with the warps in one or more longitudinal sections,

C, (represented in Fig. 3 as two,) longer than the other portions, D, which causes the portion C to full up, while the remainder will be flat, like the ordinary tape. This tape is cut to the usual lengths, and the springs pass over one surface of the tape, preferably inside, as seen in Fig. 1; then in the fulled portions, at the point where the spring passes, I place a clasp, as seen in Fig. 2, and close the clasp and tape over the spring, so as to firmly secure the two together, the tape denoted in solid black, Fig. 2. The fullness allows this to be done, and when done, the fullness is taken up, so as to leave the whole surface of the tape flat, as in Fig. 1.

In tapes with two or more fulled portions, as in Fig. 3, the clasps may be alternated with good effect and less fullness in the sections, as only so much fullness is required as will be taken up by the clasp.

I claim as my invention—

A skirt formed of a series of springs or hoops and tapes, having one or more longitudinal sections fulled, as described, the springs lying upon one surface of the tape, and secured thereto by metallic clasps upon the opposite side, closing the fullest portion over the spring, substantially as specified.

GEORGE W. HUBBELL.

Witnesses:

I. H. DOOLITTLE,
EDSON L. BRYANT.