

(Model.)

A. HARDY & E. EVANS.
WOVEN FABRIC.

No. 544,916.

Patented Aug. 20, 1895.

Fig. 1.

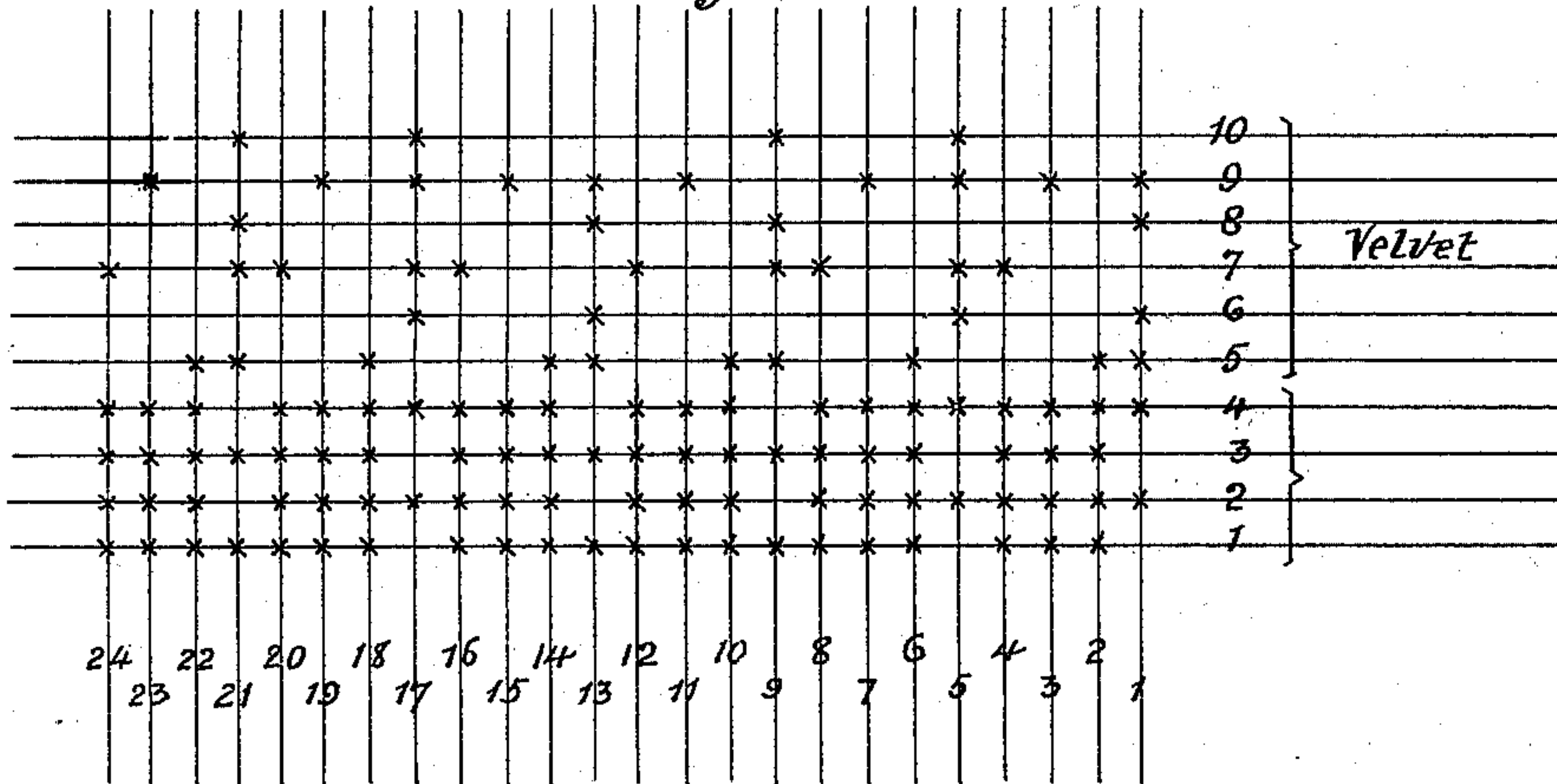


Fig. 2.

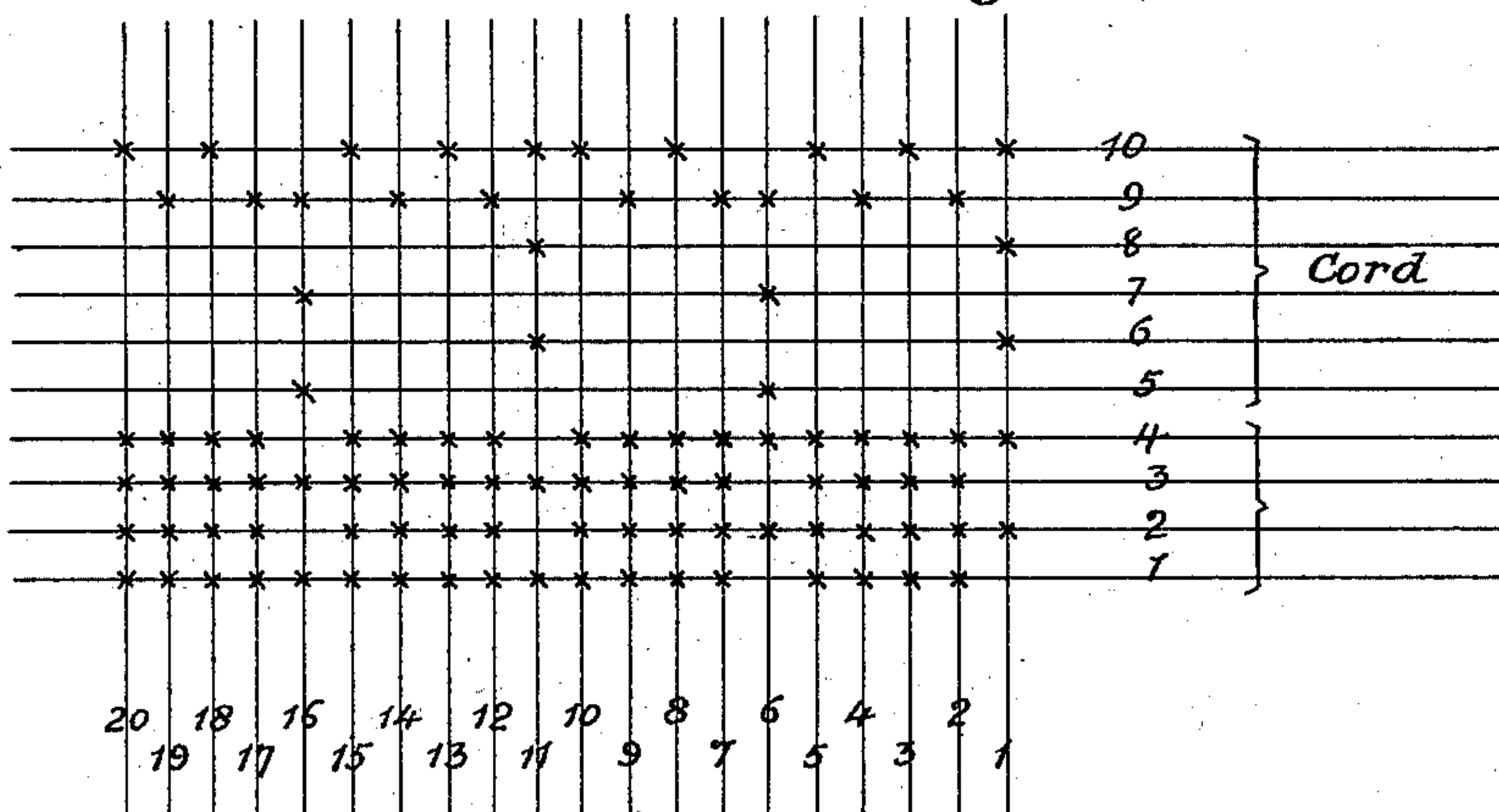
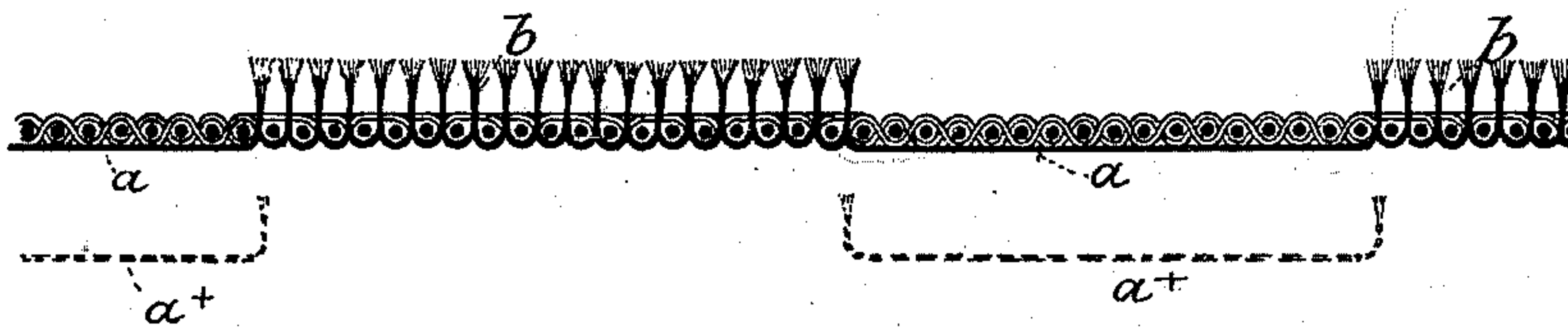


Fig. 3.



Witnesses:
George Baumann
S. E. Connor

Inventors
A. Hardy and Edward Evans
By their Attorneys.
Howson and Howson

UNITED STATES PATENT OFFICE.

ASA HARDY, OF MANCHESTER, AND EDWARD EVANS, OF MANNINGHAM,
ENGLAND.

WOVEN FABRIC.

SPECIFICATION forming part of Letters Patent No. 544,916, dated August 20, 1895.

Application filed March 3, 1894. Serial No. 502,186. (Model.)

To all whom it may concern:

Be it known that we, ASA HARDY, residing at Manchester, in the county of Lancaster, and EDWARD EVANS, residing at Manningham, Bradford, in the county of York, England, subjects of the Queen of Great Britain and Ireland, have invented Improvements in Ornamental Woven Fabrics, of which the following is a specification.

10 The object of this invention is to produce a new kind of fabric especially useful for dress-goods.

Our invention consists, principally, in so weaving a stripe of weft-pile fabric alternating with a stripe of another kind of fabric that the weft forming the pile of the stripe first named is not interwoven with the intermediate fabric, but floats beneath the same, and the last loop of pile at each side of the stripe is so arranged that the cutting of the pile will release the ends of the floated part of the weft and allow it to be quite easily removed—that is to say, withdrawn without the necessity for shearing it from the back of the cloth, which presents a smooth appearance and is free from projecting ends in the finished fabric. It will be evident that by varying the weaving and the dyeing processes many different and ornamental fabrics can be produced. For example, if a cotton warp is used for the weft-pile stripes and a woolen or mixed cotton and woolen warp for the intervening stripes, a cotton weft can be evidently so interwoven that the fabric shall be composed of a cotton weft-pile stripe and an intervening woolen or a partly woolen stripe. By subsequently dyeing this cloth, which is woven and cut in the gray with one color, say brown, by a process suitable for cotton fiber, and with another color, say golden yellow, by a process suitable for woolen fiber, a beautiful effect will be produced—namely: a stripe of brown cotton weft-pile on a ground of golden or brown shot golden fabric of “delaine”—and such variations of colors are evidently very numerous and could not be obtained were all the fabric made from cotton alone or other single kind of fiber, as it is practically impossible to cut pile formed from dyed yarn. The stripes intervening between the weft-cut-pile stripes are formed or woven by the binding-picks only of the said pile-stripes, and thus the delaine or similar fabric is very light and suitable for ladies’

55 dresses. These stripes last named may be figured, if required. The cotton weft-pile stripes may be a plain velveteen or a “cord.”

It will be evident that many different designs may be adopted to weave fabrics according to our invention; but we annex here- 60 unto two diagrams and an exaggerated sectional view, of which—

Figure 1 illustrates a weaver’s draft and “tie-up” for a stripe of cotton velvet and a stripe of unfigured or plain cloth. Fig. 2 65 illustrates a draft and tie-up for a stripe of cotton cord and a stripe or unfigured or plain cloth. In both diagrams the patterns are repeated in the drawing in of the warps, according to the width of the stripe desired. Fig. 3 70 represents an exaggerated sectional view of the cloth, the thick black lines *a* showing the floated part of the weft forming the pile *b*, such floated part being capable of being withdrawn after the pile has been cut, as indicated by the dotted lines *a*^x. 75

We claim as our invention—

1. A fabric consisting of alternating stripes of warp of two different kinds of fiber, and a weft of fiber like one of the stripes of warp, 80 part of the weft forming a cut pile with the warp of the same fiber, the other part of the weft being interwoven with and binding the warps of both stripes, the back of said fabric being smooth and free from projecting ends, 85 substantially as set forth.

2. A fabric consisting of alternating stripes of warp of two different kinds of fiber, and a weft of fiber like one of the stripes of warp, part of the weft forming a cut pile with the 90 warp of the same fiber without being bound by the warps of the other stripe, the other part of the weft binding the warps of both stripes, and the back of said fabric being smooth and free from projecting ends, sub- 95 stantially as described.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

ASA HARDY.

EDWARD EVANS.

Witnesses to the signature of Asa Hardy:

JNO HUGHES,

J. E. HUGHES.

Witnesses to the signature of Edward Evans:

EDITH J. GRISWOLD,

HUBERT HOWSON.