No. 881,494. PATENTED MAR. 10, 1908.

R. W. SCOTT.

FLEECED RIBBED WEB.

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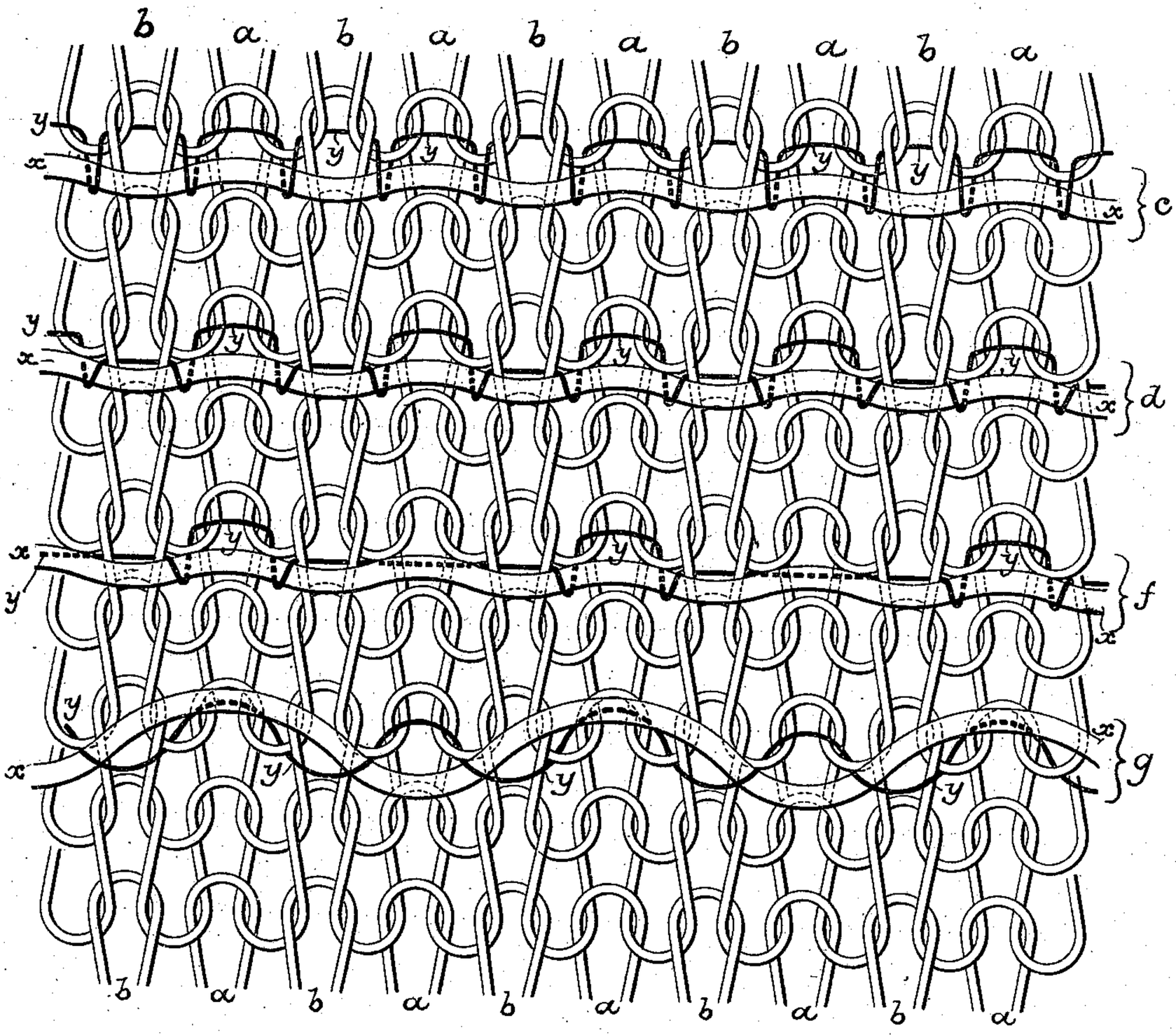

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UNITED STATES PATENT OFFICE.

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FLEECED RIBBED WEB.

No. 881,494. Specification of Letters Patent. Patented March 10, 1908.

Application filed July 12, 1906. Serial No. 325,838.

To all whom it may concern:

Be it known that I, ROBERT W. SCOTT, a citizen of the United States, residing in Leeds Point, Atlantic county, New Jersey, have invented certain Improvements in Fleeced Ribbed Webs, of which the following is a specification.

The object of my invention is to so combine a fleecing yarn with a ribbed knitted web that said fleecing yarn, while confined to the web, will not be interlaced with or engaged by any of the wales of said web, but will be exposed throughout its entire length to the brushing action whereby the yarn is fleeced. This object I attain by securing the fleecing yarn in place by means of a tying yarn which engages with said fleecing yarn and also with wales of one or both faces of the ribbed knitted web.

The accompanying drawing shows an exaggerated view of a piece of ribbed knitted web, illustrating different methods of securing a fleecing yarn thereto in accordance with my invention.

In the drawing, *a* may represent the wales of stitches drawn by the cylinder needles of the machine, and *b* the wales of stitches drawn by the dial needles, the fleecing yarn *x* lying exposed upon that face of the fabric to which these dial or rib needle stitches are drawn. The tying yarn is represented at *y*, and in that embodiment of my invention indicated at *c* said tying yarn engages with each of the wales *a* and *b* and passes around the fleecing yarn *x* between each of said wales *a* and *b*. The fleecing yarn may thus be combined with the knitted web by laying it behind the stitches of the dial needles and in front of the cylinder needles, but casting it from the latter when the loops of tying yarn are drawn, so that it will lie behind said cylinder needles when the next course of stitches is drawn thereby, the tying yarn being fed to both the cylinder and dial needles, and drawing loops in each of the wales of the fabric.

In that embodiment of my invention shown at *d*, the tying yarn engages with the wales *a* only, and lies behind the stitches of the wales *b*, this method of confining the fleecing yarn being the same as that before described, except that the tying yarn is not engaged by the dial needles but is laid behind said dial needles and between the face wales and rib wales of the web.

The method of securing the fleecing yarn shown at *f* is similar to that shown at *d* except that the tying yarn engages with every other face wale *a* of the web instead of with every wale *a* of the same, this method of attachment being effected by drawing loops of tying yarn on every alternate cylinder needle instead of on each cylinder needle.

In that embodiment of my invention shown at *g*, the tying yarn engages with wales *a* of the fabric in the manner before described, but passes outside of the dial needle wales *b* instead of inside of the same, this disposal of the tying yarn being due to the fact that it is laid behind the dial needle stitches instead of being fed to the dial needles or laid between the dial needle stitches and cylinder needle stitches as in the methods previously described.

By thus freeing the fleecing yarn from direct engagement with any of the wales of the knitted web, said yarn is exposed throughout its length to the action of the brushing mechanism whereby it is fleeced, and a closer and fuller fleece than usual can be produced, for where the fleecing yarn engages with the wales of the web these engaging portions are not acted upon, or are only slightly acted upon, by the brushing mechanism, and hence do not contribute their share to the formation of the fleece. Furthermore, when the fleecing yarn is of a character different from that of which the ribbed web is composed, said fleecing yarn is not exposed upon the face of the fabric, and does not detract from the uniform appearance of the same.

I claim:—

1. A ribbed knitted fabric having a fleecing yarn lying on one face of the same and secured to the ribbed web by means of a tying yarn engaging said fleecing yarn and also engaging wales of the ribbed web.

2. A ribbed knitted fabric having a fleecing yarn lying on one face of the same and secured to the ribbed web by means of a tying yarn engaging said fleecing yarn and also engaging wales of both faces of the ribbed web.

3. A ribbed knitted fabric having a fleecing yarn lying on one face of the same and secured to the ribbed web by means of a tying yarn engaging said fleecing yarn and also en-

gaging each wale of one face of the ribbed web.

4. A ribbed knitted fabric having a fleecing yarn lying on one face of the same and secured to the ribbed web by means of a tying yarn engaging said fleecing yarn and also engaging each wale of each face of the ribbed web.

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

ROBERT W. SCOTT.

Witnesses:
HAMILTON D. TURNER,
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