R. W. SCOTT.
RIBBED KNITTED FABRIC.
APPLICATION FILED AUG. 17, 1906.

Witnesses

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RIBBED KNITTED FABRIC.

No. 346,429.


Application filed August 17, 1906. Serial No. 331,014.

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 Ribbed Knitted Fabrics, of which the following is a specification.

My invention relates to that class of knitted fabrics in which ornamental open-work effects are produced by the formation of eyelet-holes in a knitted web, one of the objects of my invention being to produce such ornamental or open-work effects in ribbed webs without transferring stitches from one needle-wale to another, and a further object being to enlarge the size of the eyelet-hole beyond the normal in that class of webs in which the eyelet-hole is formed by the lateral displacement of a sinker-wale.

The figure in the accompanying drawing is an exaggerated view of a piece of ribbed knitted web illustrating the manner of forming eyelet-holes in the same in accordance with my invention.

In the drawing, a a represent the wales of one face of the fabric—say, for instance, those produced by the cylinder-needles of a rib-knitting machine. b b represent the wales of the other face of the fabric—say, for instance, those produced by the dial-needles of the machine—and c c represent the sinker-wales or those portions of the knitting-yarn passing from one needle-wale to the other.

In order to produce an eyelet-hole in the web, I displace the sinker-wale yarn at the point where the eyelet-hole is to be produced and cause it to engage with an adjoining wale of either face of the fabric. Thus, as shown at e, the displaced sinker-wale engages with a cylinder-wale of the fabric, and, as shown at f, the displaced sinker-wale engages with a dial-needle-wale of the web, or the displaced sinker-wale may be spread laterally in both directions, so as to engage both with a cylinder-needle-wale and with a dial-needle-wale, as shown at g. In order to enlarge the eyelet-hole beyond the size normally due to the displacement of the sinker-wale, I prefer in some cases to slacken the sinker-wale of the preceding course—asshown, for instance, at h.

Where a still larger eyelet-hole is desired, the sinker-wale yarn in a plurality of adjoining courses may be displaced and caused to engage with either one or both of the adjoining needle-wales, as shown—for instance, at m and n, respectively—this double displacement being also, if desired, combined with the slackening of the sinker-wale of the preceding course.

In order to effect the desired results, an ordinary rib-knitting machine may be provided, either in the cylinder or dial, with supplementary needles, bars, or points for engaging the yarn of the sinker-wales; said yarn being either displaced from its normal path from needle to needle, in order to slacken it, or being transferred laterally to a needle of either or both members of the machine when it is to engage a needle-wale of one or both faces.

I claim—

1. A ribbed, knitted web having eyelet-holes therein, each formed by the laterally-displaced yarn of a sinker-wale engaging an adjoining needle-wale of said ribbed fabric.

2. A knitted web having eyelet-holes therein, each formed by the laterally-displaced yarn of a sinker-wale engaging an adjoining needle-wale, and by a slackened sinker-wale of a preceding course.

3. A ribbed, knitted web having eyelet-holes therein, each produced by the laterally-displaced yarn of a sinker-wale engaging adjoining needle-wales of both faces of the web.

4. A ribbed, knitted web having eyelet-holes therein, each produced by the laterally-displaced yarn of a sinker-wale engaging adjoining needle-wales of both faces of the web and by a slackened sinker-wale of a preceding course.

5. A ribbed, knitted web having eyelet-holes therein, each produced by the laterally-displaced yarns in a plurality of adjoining courses of a sinker-wale engaging with an adjoining needle-wale.

6. A ribbed, knitted web having eyelet-holes therein, each produced by the laterally-displaced yarns in a plurality of adjoining courses of a sinker-wale engaging with an adjoining needle-wale and by a slackened sinker-wale of a preceding course.
7. A ribbed, knitted web having therein eyelet-holes, each produced by the laterally-displaced yarns in a plurality of adjoining courses of a sinker-wale engaging adjoining needle-wales of both faces of the web.

8. A ribbed, knitted web having therein eyelet-holes, each produced by the laterally-displaced yarns in a plurality of adjoining courses of a sinker-wale engaging adjoining needle-wales of both faces of the web and by a slackened sinker-wale of a preceding course.

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

ROBERT W. SCOTT.

Witnesses:

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