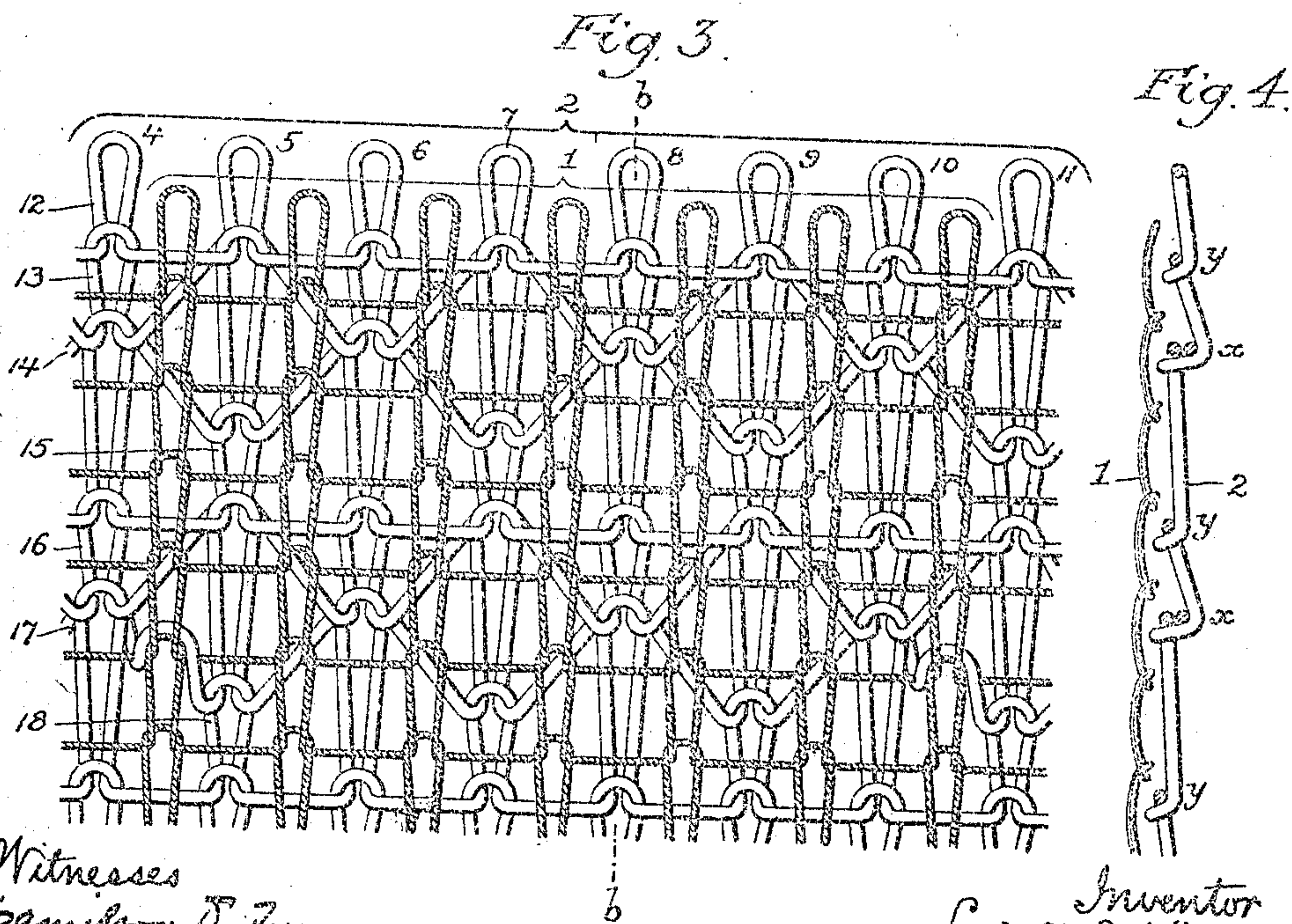
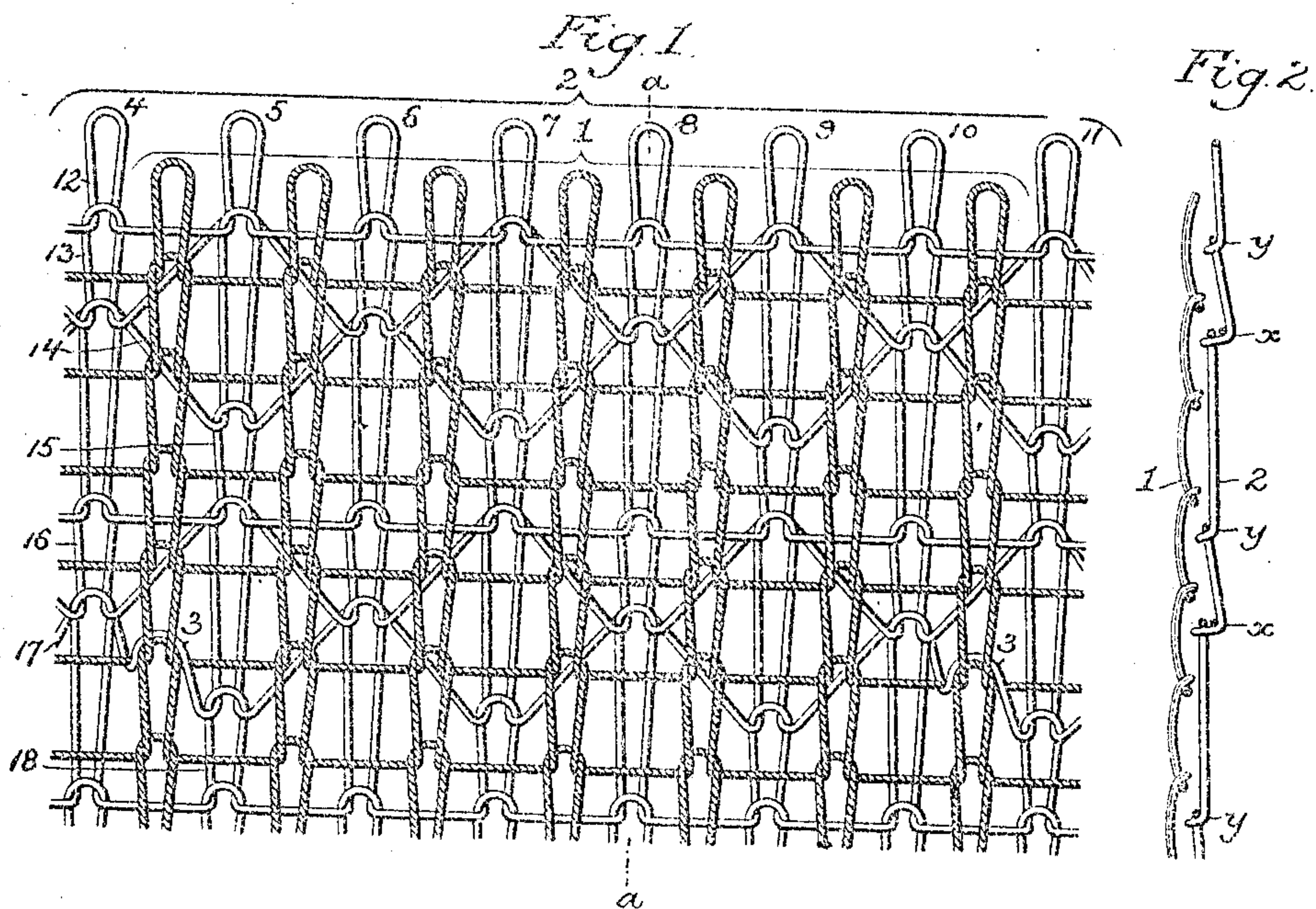


No. 872,163.

PATENTED NOV. 26, 1907.

L. N. D. WILLIAMS.  
KNITTED FABRIC.

APPLICATION FILED DEC. 11, 1906.



Witnesses  
Hamilton D. Turner  
Harry R. Smith.

Inventor  
Louis N. D. Williams  
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# UNITED STATES PATENT OFFICE.

LOUIS N. D. WILLIAMS, OF OGONTZ, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO ROBERT W. SCOTT, OF LEEDS POINT, NEW JERSEY

## KNITTED FABRIC.

No. 872,163.

Specification of Letters Patent.

Patented Nov. 26, 1907.

Application filed December 11, 1906. Serial No. 347,275.

*To all whom it may concern:*

Be it known that I, LOUIS N. D. WILLIAMS, a citizen of the United States, residing in Ogontz, Montgomery county, Pennsylvania, have invented certain Improvements in Knitted Fabrics, of which the following is a specification.

My invention consists of an improvement in the knitted fabric forming the subject of Letters Patent No. 709,734, granted September 23, 1902, to Robert W. Scott and myself as assignees of David C. Bellis, the objects of my present invention being to produce a backing web which is better adapted for the production of a fleece than is the backing web of the patented fabric, and to effect the tying together of a fine face web and a coarser backing web without marring the appearance of the face web.

In the accompanying drawing:—Figure 1 is an exaggerated view of a piece of my improved fabric looking at the face side of the same; Fig. 2 is a section on the line *a—**a*, Fig. 1; Fig. 3 is a view similar to Fig. 1 but illustrating the backing fabric made with a coarser or heavier yarn than the face fabric, and Fig. 4 is a section on the line *b—**b*, Fig. 3.

The fabric forming the subject of the aforesaid Letters Patent No. 709,734 comprised two webs, one overlying the other and united at intervals by a loop of the yarn of one web engaging the other web, and the fabric forming the subject of my invention is of a similar character, thus in Figs. 1 and 3 of the drawing, 1 represents the face web and 2 the back web, the stitches of the face web being shaded in order to more clearly distinguish them from the stitches of the back web, which are unshaded. The two webs are connected at intervals by loops 3 of the yarn of the backing web engaging with wales of the face web, this being a preferable method of connection, since it detracts less from the uniform appearance of the face web than would loops of the latter engaging with the back web, although the latter method of connection may, if desired, be used without departing from the main feature of my invention, or other modifications of the tying structure, such as illustrated in said Bellis patent, may be used if desired.

The essential feature of novelty in my present invention is the formation of the backing web with tuck stitches, the back web shown in the drawing having the stitches

tucked in courses 13 and 16 in wales 5, 7, 9 and 11, and in courses 14 and 17 in wales 4, 6, 8 and 10, or with a single tuck in alternate wales, but the character of the tuck may be changed without departing from the essential features of my invention. The purpose of this tucking of the stitches of the back web is to effect greater projection of the engaging stitches on the exposed face of said back web than would be possible in the absence of the tuck, as will be understood on reference to Figs. 2 and 4, in which it will be observed that the stitches *x* which engage the double yarns where the tucking takes place are caused to project to a greater extent on the exposed face of the web than the stitches *y* which engage the single yarns, the effect of this projection being to produce a surface which is better adapted for the production of a fleece by brushing or gigging than a relatively flat or uniform surface such as that presented by the back web of the patented fabric. This is especially true when the back web is composed of heavier or coarser yarn than the face web, as shown in Figs. 2 and 4.

I claim:—

1. A knitted fabric comprising two webs, one overlying the other and united at intervals by yarn of one web engaging the other web, the back web being knitted with tuck stitches whereby certain portions of the exposed face of said back web are projected beyond the remaining portions.

2. A knitted fabric comprising two webs, one overlying the other and united at intervals by yarn of one web engaging the other web, the back web being knitted with tuck stitches in certain courses in some of the wales and in alternate courses in the alternate wales whereby certain portions of the exposed face of said back web are projected beyond the remaining portions.

3. A knitted fabric comprising two webs, one overlying the other and united at intervals by yarn of one web engaging the other web, the back web being composed of heavier yarn than the face web and being knitted with tuck stitches whereby certain portions of the exposed face of said back web are projected beyond the remaining portions.

4. A knitted fabric comprising two webs, one overlying the other and united at intervals by yarn of one web engaging the other web, the back web being composed of heavier



yarn than the face web and being knitted with tuck stitches in certain courses of some of its wales and in alternate courses of the alternate wales, whereby certain portions of the exposed face of said back web are projected beyond the remaining portions.

5 the exposed face of said back web are projected beyond the remaining portions.  
5. A knitted fabric comprising two webs, one overlying the other and united at intervals by a loop of the yarn of the back web engaging the face web, said back web being  
10 composed of heavier yarn than the face web.

6. A knitted fabric comprising two webs, one overlying the other and united at intervals by a loop of the yarn of the back web

engaging the face web, said back web being 15 composed of heavier yarn than the face web and being knitted with tuck stitches, whereby certain portions of the exposed face of said back web are projected beyond the remaining portions.

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

LOUIS N. D. WILLIAMS.

Witnesses:

HAMILTON D. TURNER,  
KATE A. BEADLE.