

930,180.

W. H. HORN, JR.
KNITTED FABRIC.
APPLICATION FILED DEC. 7, 1907.

Patented Aug. 3, 1909.

Fig. 1.

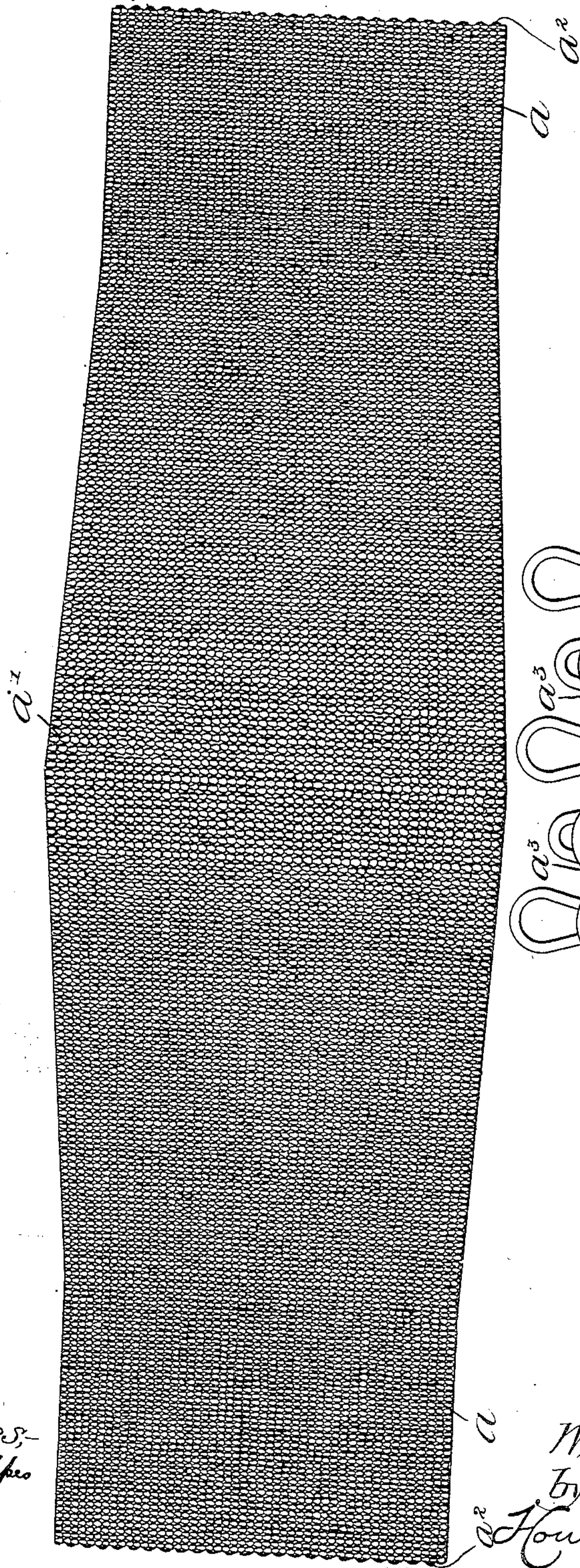
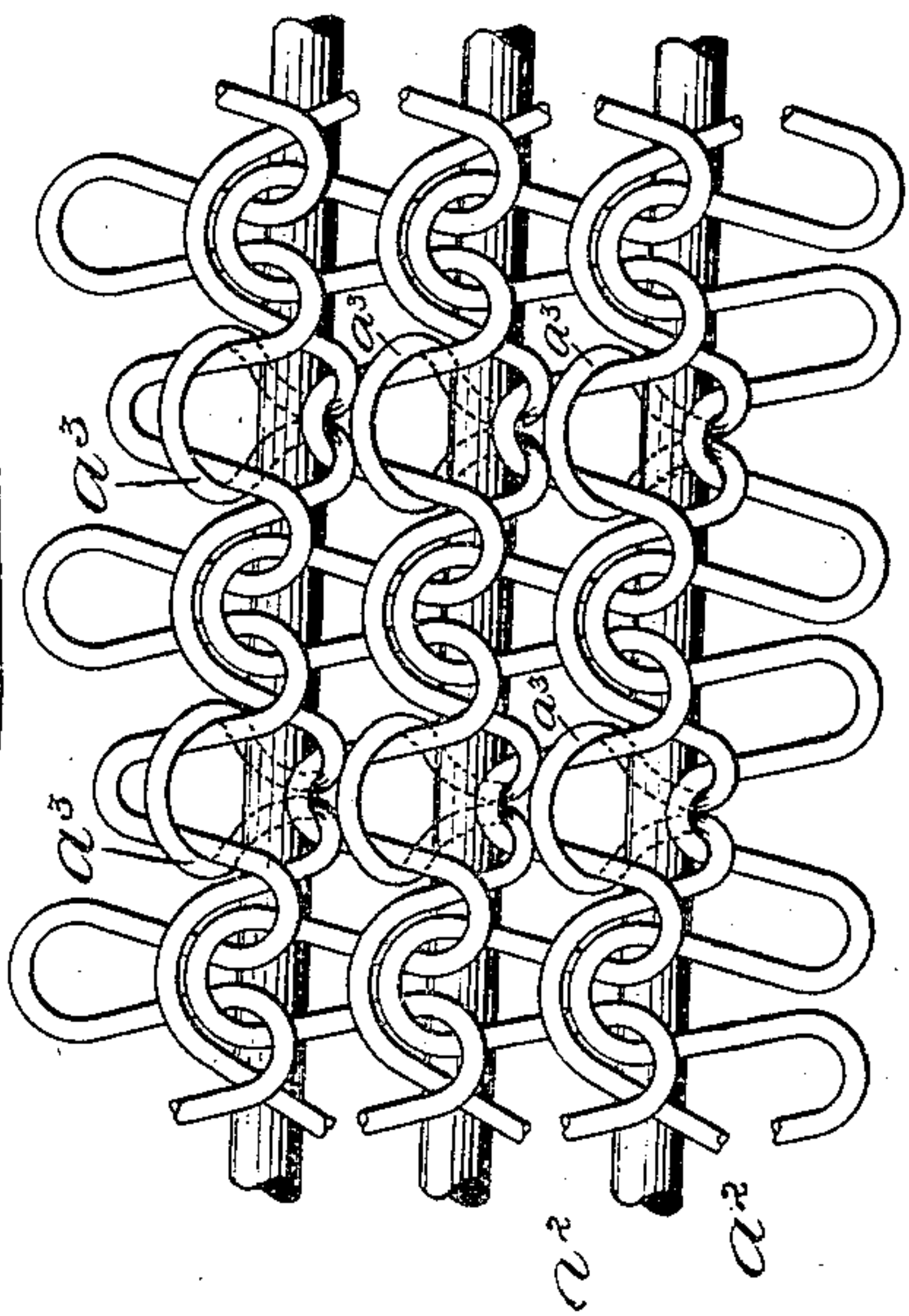


Fig. 2.



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UNITED STATES PATENT OFFICE.

WILLIAM H. HORN, JR., OF PHILADELPHIA, PENNSYLVANIA.

KNITTED FABRIC.

No. 930,180.

Specification of Letters Patent.

Patented Aug. 3, 1909.

Application filed December 7, 1907. Serial No. 405,546.

To all whom it may concern:

Be it known that I, WILLIAM H. HORN, Jr., a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain Improvements in Knitted Fabrics, of which the following is a specification.

One object of my invention is to provide a knitted fabric which while having constant numbers of wales and courses shall nevertheless be of different dimensions at various parts of its width or length, as the case may be.

I further desire to provide an abdominal or other bandage for various parts of the body or limbs, composed of knitted fabric having constant numbers of wales and courses, but whose dimensions at its middle portion shall be different from those of its two ends.

These objects and other advantageous ends I secure as hereinafter set forth, reference being had to the accompanying drawings, in which:

Figure 1, is a plan, to a great extent diagrammatic, illustrating the construction of an abdominal or knee cap bandage made according to my invention, and Fig. 2, is an enlarged diagrammatic view illustrating one of the many stitches which may be used in knitting this particular fabric.

In the above drawings, it will be noted that the end portions a of the bandage are narrower than the middle portion a' and that while there are constant numbers of wales and courses throughout the fabric comprising the bandage, the loops are larger at the middle portion thereof, becoming gradually smaller as they approach the end sections of the bandage. In order to accomplish this end I make the central stitches of each course larger than those of the ends, employing for this purpose a machine of the construction described and claimed in an application for patent filed by me April 15, 1908, Serial No. 427,265.

In order that the bandage may be more or less elastic I knit into it weft threads a^2 of rubber which in the present instance extend longitudinally of the bandage, these being held to or made part of the fabric by tying-in loops a^3 .

As is obvious, any of a number of stitches may be employed in making my improved bandage, it being, however, essential that while the number of its wales and courses remains constant, the relative looseness or tightness of the stitches and, therefore, their size, is varied to secure variations in the dimensions of the fabric.

It is also obvious that in some cases the rubber threads may be omitted without departing from the main features of my invention, although the use of such threads in a bandage is advisable.

Though in the drawing I have illustrated a bandage in which the middle portion is composed of stitches made with large loops while the stitches of the ends have smaller loops, it will be noted that the shape or contour of the bandage, as well as the relative placing of loose and tightly knitted portions, may be varied as desired without departing from my invention.

I claim:

1. A bandage consisting of a knitted fabric having constant numbers of wales and courses, the lengths of the stitches at certain parts of the bandage being different from those of the other parts, with rubber weft threads knitted in the fabric.

2. A bandage consisting of a knitted fabric having constant numbers of wales and courses, the lengths of the stitches of the middle portion of the bandage being different from those of its end portions, with rubber weft threads forming a selvage at the ends of the bandage.

3. A bandage consisting of a knitted fabric having constant numbers of wales and courses and formed with its stitches gradually decreased in length from its middle toward its end portions, with rubber weft threads extending longitudinally through the bandage and forming a substantially straight selvage at each end thereof.

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

WILLIAM H. HORN, JR.

Witnesses:

C. A. HEILKER,
CHAS. A. FOA.