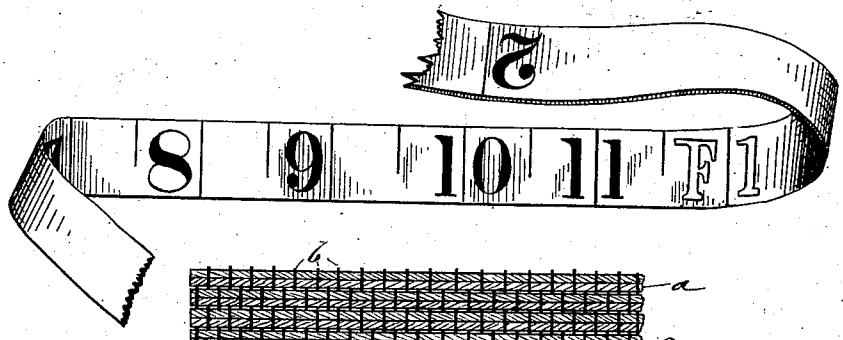
(Model.)

W. CHESTERMAN.

MEASURING TAPE.

No. 260,163. Patented June 27, 1882.

Fig. 1.



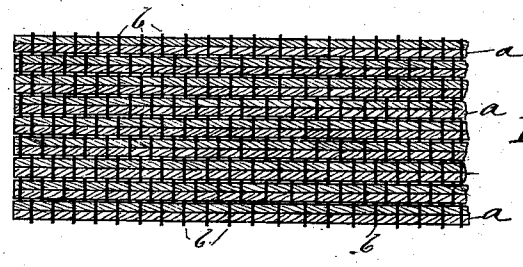
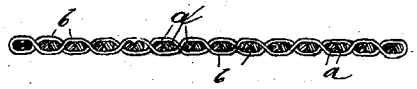


Fig. 2.

Fig. 3.



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UNITED STATES PATENT OFFICE.

WILLIAM CHESTERMAN, OF SHEFFIELD, COUNTY OF YORK, ENGLAND.

MEASURING-TAPE.

SPECIFICATION forming part of Letters Patent No. 260,163, dated June 27, 1882.

Application filed August 18, 1880. (Specimens.) Patented in England February 11, 1880, No. 611.

To all whom it may concern:

Be it known that I, WILLIAM CHESTERMAN, of Sheffield, in the county of York, England, have invented a new and useful Improvement in Measuring-Tapes, of which the following is a specification, reference being had to the accompanying drawings, in which—

Figure 1 is a plan view of my measuring-tape when finished; and Figs. 2 and 3 are views of the fabric, and showing the manner in which it is woven.

The object of this invention is the production of measuring-tapes of an improved character, made from woven materials—that is, fibrous materials interwoven with each other; and the invention consists in weaving the warp and weft threads together in such a manner that the warp-threads shall be alternately over and under one weft-thread and the weft-threads shall be alternately over and under two or more warp-threads.

In carrying out my invention for production of the improved tape an ordinary small-ware loom can be used. The warps will be arranged as usual, except that, instead of lying single in the leashes, they will lie two or more in each leash, the weft lying single. The arrangement may be that the warp-threads are all double except one, two, or more, which may be single. The weft in this case could be arranged to go over and under the single warp-threads. I however prefer the arrangement first described, and which is illustrated in the accompanying drawings, wherein the double warp-threads are shown at *a a* and the weft at *b*, passing alternately over and under the warp-threads *a*.

In consequence of this method of laying the warp, the corrugation in its threads becomes comparatively slight, and consequently the tape will be less liable to contraction or expansion in the direction of its length than the ordinary measuring-tape.

The fabric thus woven may be waterproofed, and is prepared and graduated in the ordinary manner.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

As an improved article of manufacture, the measuring-tape herein described, consisting of a fabric wherein the warp-threads lie two or more together and the weft lies single alternately over and under the warp-threads, and the fabric graduated, as and for the purpose set forth.

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