

No. 674,138.

Patented May 14, 1901.

I. E. PALMER.
WOVEN FABRIC.

(Application filed Mar. 8, 1901.)

(No Model.)

Fig. 1.

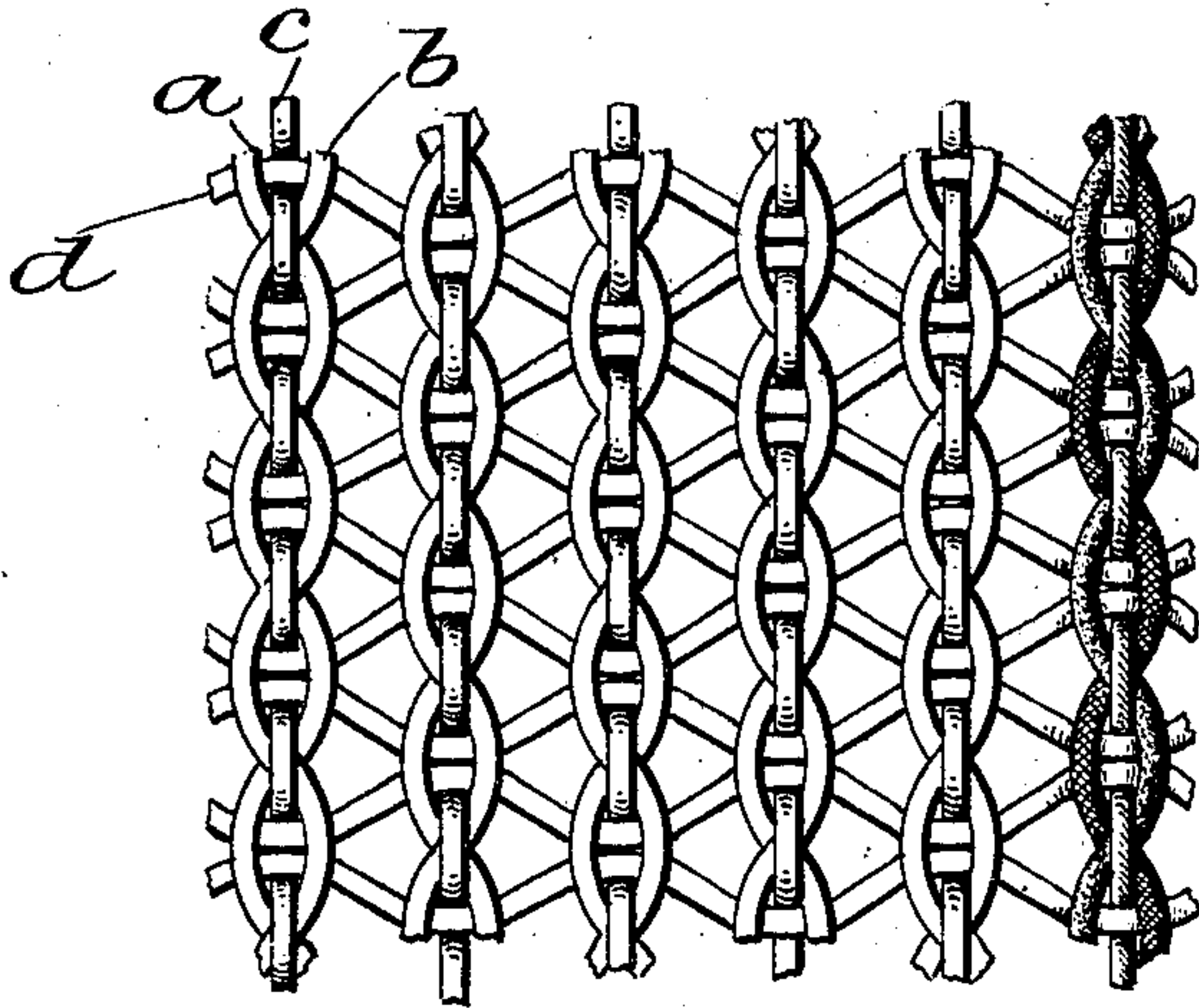


Fig. 2.

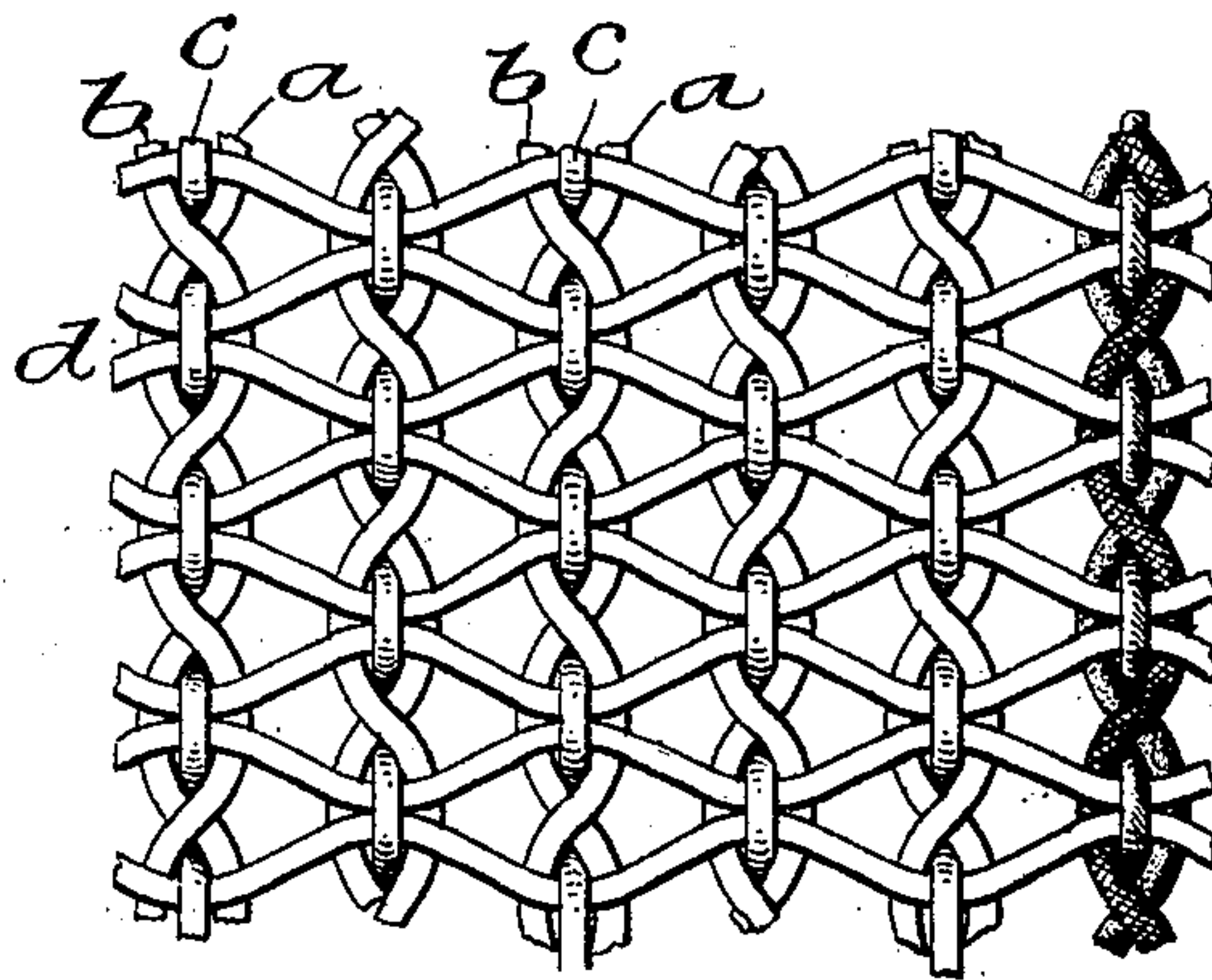
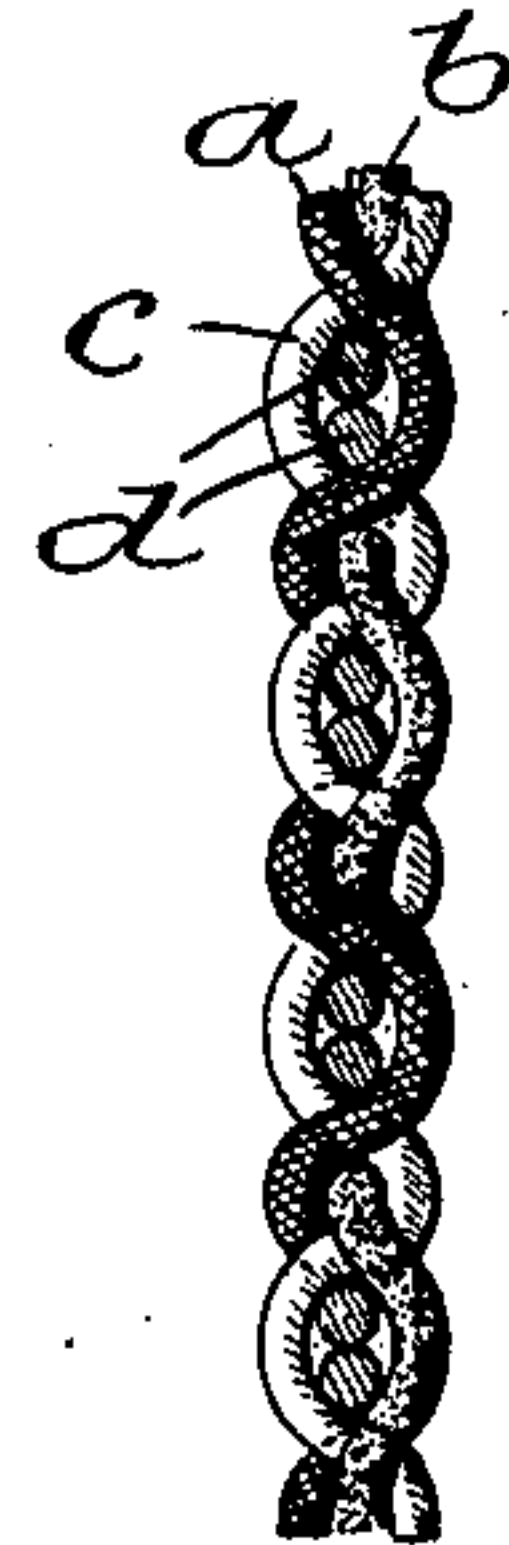


Fig. 3.



WITNESSES:

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WOVEN FABRIC.

SPECIFICATION forming part of Letters Patent No. 674,138, dated May 14, 1901.

Application filed March 8, 1901. Serial No. 50,302. (No model.)

To all whom it may concern:

Be it known that I, ISAAC E. PALMER, a citizen of the United States, and a resident of Middletown, in the county of Middlesex and State of Connecticut, have invented a new and useful Improvement in Woven Fabrics, of which the following is a specification.

My invention relates to an improvement in woven fabrics, and comprises a fabric having its warp arranged in groups of three threads each, the outer threads of each group crossing each other at intervals forming a series of loops arranged in staggered order transversely of the fabric, the middle of the three threads extending along the crossings and middle of the series of loops and having each two adjacent weft-threads alternately approaching each other and passing together between the middle and outer threads of a loop and then diverging and passing separately between the middle and outer threads of adjacent loops.

The object of my invention is to provide an open cross-weave fabric woven in the above manner, which fabric will be very strong, which will present an attractive appearance, and which will retain its pattern under great longitudinal stress, thus rendering the fabric particularly applicable for use in hammocks.

In the accompanying drawings, Figure 1 represents a view of one face of the fabric. Fig. 2 represents a view of the other face of the fabric, and Fig. 3 is an edge view of the fabric.

Each group of three threads in the warp consists of two outer threads *a b* and a middle thread *c*. The outer threads *a* and *b* of each group cross each other at intervals, forming a series of loops. The middle thread *c*

of each group extends along the crossings and middle of the series of loops. The loops in one group of threads are opposite the crossings in the adjacent groups of threads, so that the loops are arranged in staggered order transversely of the fabric.

The weft-threads are denoted by *d*, and each two adjacent weft-threads alternately approach each other and pass together between the middle and outer threads of a loop in one of the groups and then diverge and pass separately between the middle and outer threads of two adjacent loops in the next group of warp-threads.

It is evident that the meshes of the fabric may be made larger or smaller, as may be found desirable to suit different requirements.

What I claim is—

A fabric having its warp arranged in groups of three threads each, the outer threads of each group crossing each other at intervals forming a series of loops arranged in staggered order transversely of the fabric, the middle of the three threads extending along the crossings and middle of the series of loops and each two adjacent weft-threads alternately approaching each other and passing together between the middle and outer threads of a loop and then diverging and passing separately between the middle and outer threads of adjacent loops, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 1st day of February, 1901.

ISAAC E. PALMER.

Witnesses:

CHAS. M. SAUER,
PAUL S. CARRIER.