

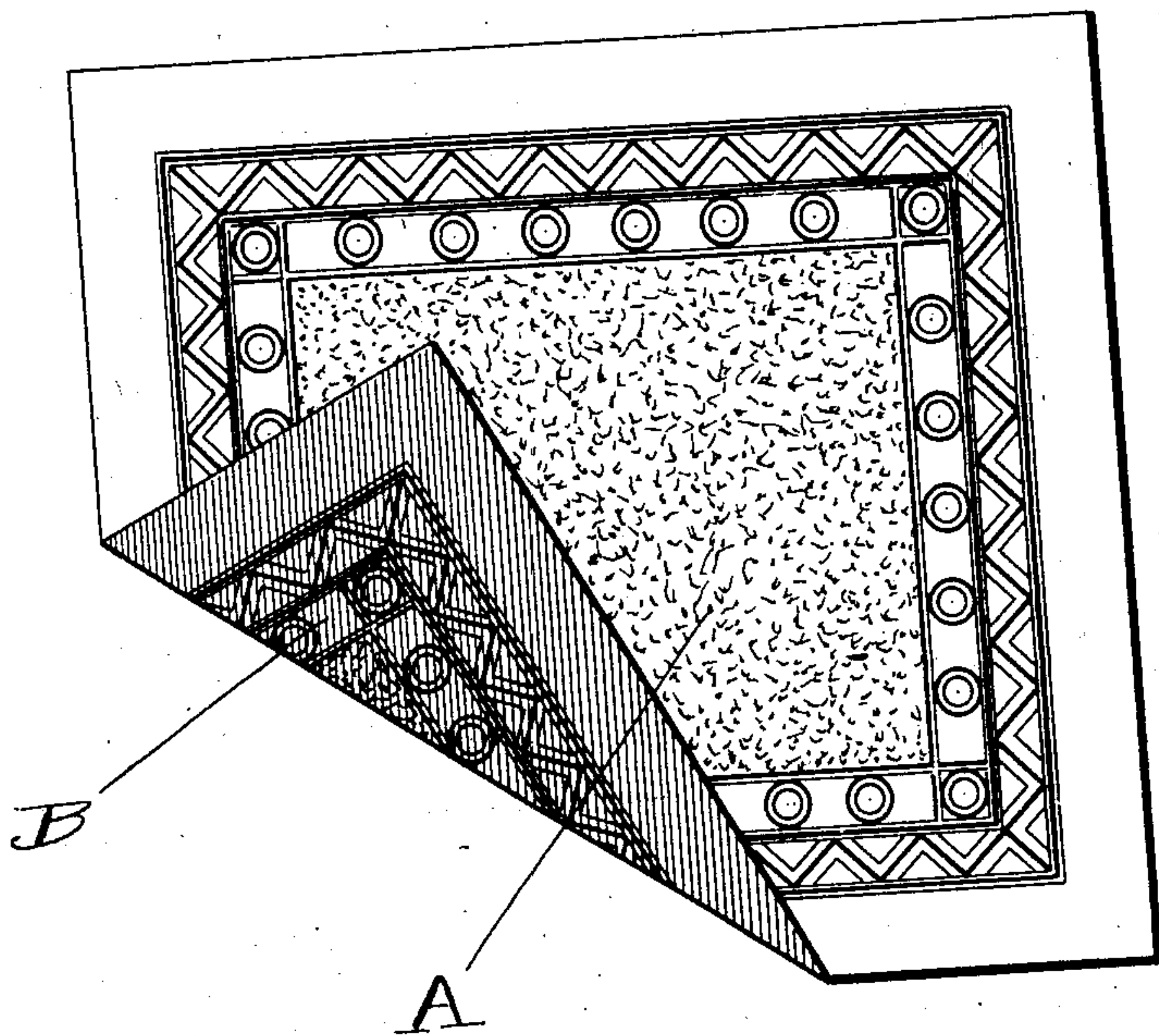
No. 774,775.

PATENTED NOV. 15, 1904.

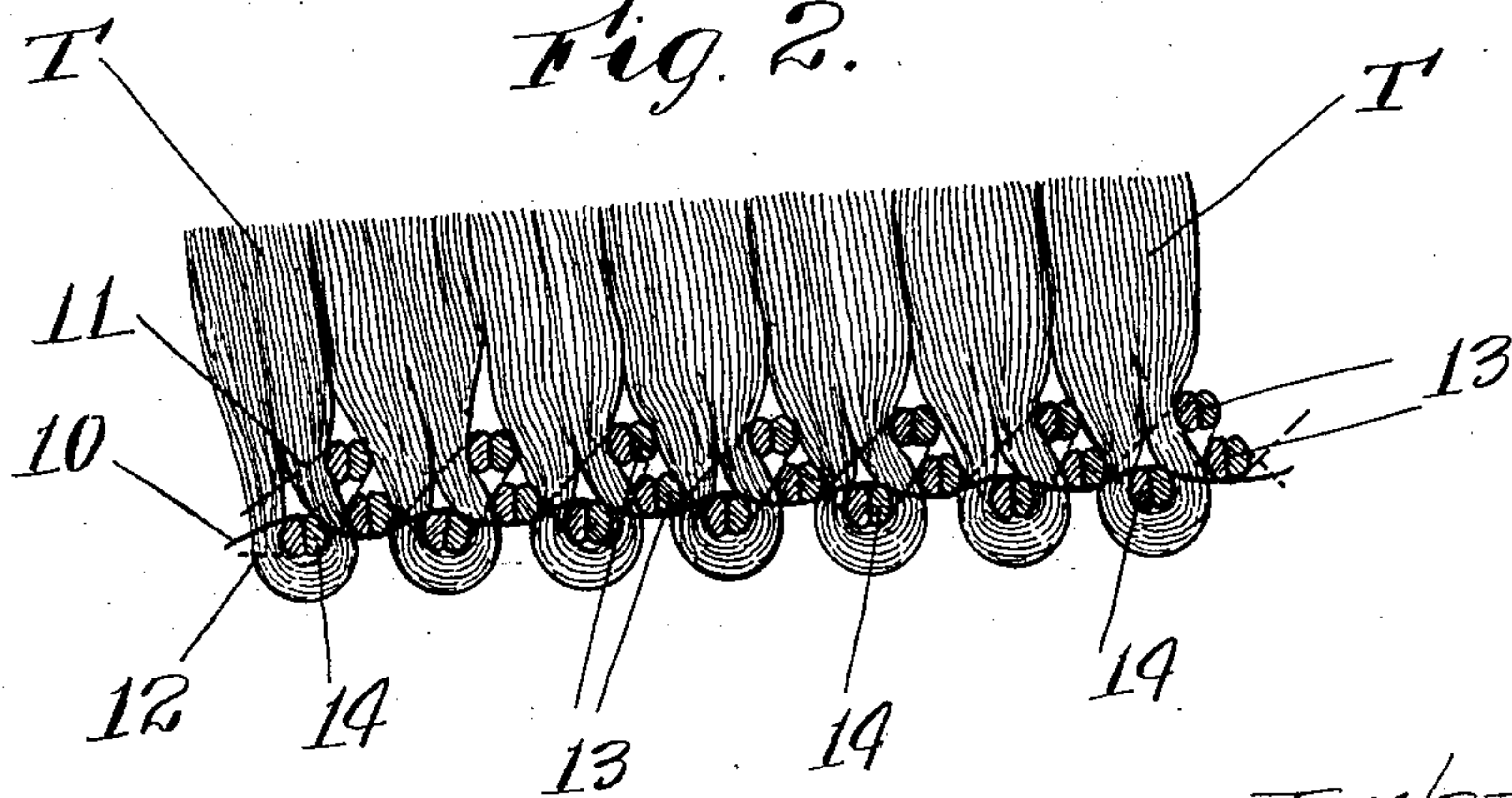
W. PEARSALL.  
WOVEN FABRIC.  
APPLICATION FILED FEB. 23, 1904.

NO MODEL.

*Fig. 1.*



*Fig. 2.*



Witnesses:  
C. F. Messon.  
A. M. Goddard.

Inventor:  
W. Pearsall.  
By his Attorneys,  
Southgate and Southgate



# UNITED STATES PATENT OFFICE.

WILLIAM PEARSALL, OF WORCESTER, MASSACHUSETTS, ASSIGNOR TO  
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## WOVEN FABRIC.

SPECIFICATION forming part of Letters Patent No. 774,775, dated November 15, 1904.

Application filed February 23, 1904. Serial No. 194,706. (No specimens.)

*To all whom it may concern:*

Be it known that I, WILLIAM PEARSALL, a subject of the King of England, residing at Worcester, in the county of Worcester and State of Massachusetts, have invented a new and useful Woven Fabric, of which the following is a specification.

This invention relates to that class of pile fabrics in which the pile is formed by a number of tufts.

The especial object of this invention is to provide a tufted pile fabric in which the pattern on the face of the fabric will also be reproduced upon the back thereof.

To this end this invention consists of the tufted pile fabric as an article of manufacture and of the combinations of threads therein, as hereinafter described, and more particularly pointed out in the claims at the end of this specification.

In the accompanying drawings, Figure 1 is a plan view of a rug or similar piece of fabric constructed according to this invention, one corner being thrown back to show the reproduction of the design upon the back of the fabric; and Fig. 2 is an enlarged sectional view of a piece of the fabric, showing the arrangement of threads therein.

In a fabric constructed according to this invention the chain or body portion of the fabric is preferably formed of jute or similar material, while each of the individual tufts is formed from coarse or heavy yarn which is of considerably larger diameter than the jute or other material forming the body of the fabric.

A fabric woven according to this invention has been especially designed as a carpet, preferably employed in the form of rugs or breadths having color designs.

Referring to the drawings and in detail, in a fabric constructed according to this invention the pattern appears upon the face of the fabric A and also upon the back of the fabric B. Projecting from the fabric is a tufted pile, while on the back the heavy yarns which form the tufts extend completely through and are of sufficiently larger diameter than the jute threads which form the backing of the

fabric so that they will practically conceal the jute threads and will reproduce the pattern at the back of the fabric.

In the arrangement of threads of a fabric constructed according to this invention the chain or body portion of the fabric comprises a number of jute threads 10 which run together in a single warp plane. Running with the jute threads 10 and intermittently raised up from the plane of the threads 10 are the threads 11, and running with the warp-threads 10 and intermittently raised above and depressed below the plane of the warp-threads 10 is a third set of warp-threads 12. Sewed into the shed between the warp-threads 10 and the loop of the threads 12 below the plane of the threads 10 is a double strand of weft or filling threads 14. Sewed into the shed between the warp-threads 10 and the threads 11 and 12 when lifted above the threads 10 are double strands of filling-threads 13. The tufts T are looped around the filling-threads 14—that is to say, the tufts are fastened in place by the filling-threads 14—and between the consecutive tufts are interposed two sets of filling-threads 13.

In practice the yarn employed for the tufts T is so much coarser and larger in diameter than the jute threads which form the chain or body portion of the fabric that the loops of the tufts which extend through to the back of the fabric will largely conceal the warp-threads which run therewith and the pattern will be clearly reproduced upon the back.

I am aware that changes may be made in the construction of fabrics without departing from the scope of this invention as expressed in the claims. I do not wish, therefore, to be limited to the construction I have herein shown and described; but

What I do claim, and desire to secure by Letters Patent of the United States, is—

1. As an article of manufacture, a three-shot pile fabric comprising a backing consisting of chain-warps which lie comparatively straight in the completed fabric and determine the plane of the backing, three sets of filling-threads, two sets being sewed into place above the chain-warps, and one set thereof be-

ing sewed into place below the chain-warps, additional warps binding the filling-threads, and tufts looped around the set of filling-threads sewed into place below the chain-warps, whereby the same pattern shows both upon the face and back of the fabric.

2. As an article of manufacture, a tufted pile fabric comprising a backing consisting of chain-warps 10 which lie comparatively straight in the completed fabric and determine the plane of the backing, warp-threads 11 which alternately run with and are raised above the chain-warps 10, warp-threads 12 which are alternately raised above and depressed below the chain-warps 10, and three sets of filling-threads, two sets of filling-

threads being sewed into place above the chain-warps, and the third set of filling-threads being sewed into place below the chain-warps, with tufts looped around the set of filling-threads which are sewed into place below the chain-warps 10, whereby the same pattern shows both upon the face and back of the fabric.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

WILLIAM PEARSALL

Witnesses:

J. ELMER HALL,  
PHILIP W. SOUTHGATE.