J. K. DALKRANIAN.

WOVEN PILE FABRIC.

APPLICATION FILED APR. 17, 1906.

923,027. Patented May 25, 1909.

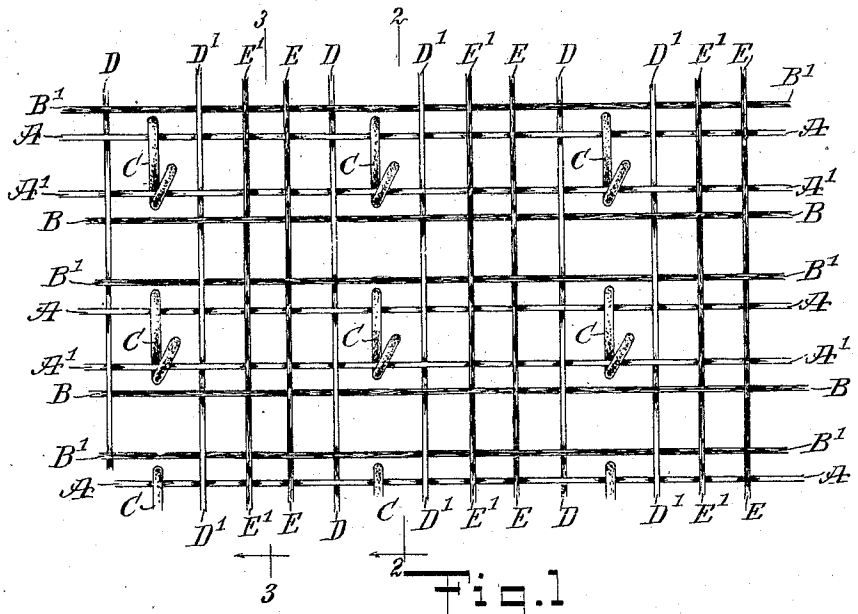


Fig. 1

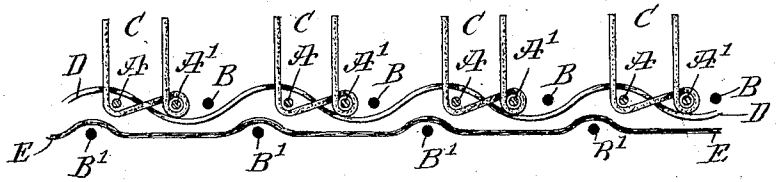


Fig. 2

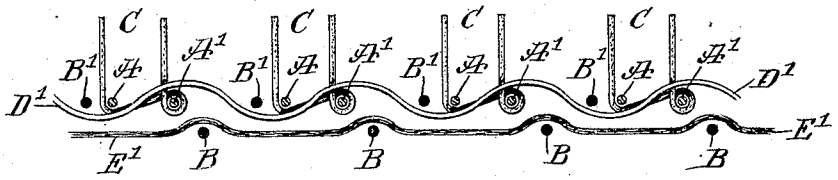


Fig. 3

WITNESSES:

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JAMES KARMI DALKRANIAN, OF NEW YORK, N. Y., ASSIGNOR, BY MESNE ASSIGNMENTS, TO UNITED STATES PERSIAN CARPET COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

WOVEN PILE FABRIC.

No. 923,027. Specification of Letters Patent. Patented May 25, 1909.

Application filed April 17, 1906. Serial No. 312,143.

To all whom it may concern:

Be it known that I, JAMES KARMI DALKRANIAN, a citizen of the United States, and a resident of the city of New York, borough of the Bronx, in the county and State of New York, have invented a new and Improved Woven Pile Fabric, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved woven pile fabric of the oriental rug type having Persian knots, and arranged to strongly reinforce the body of the fabric, thus rendering the latter exceedingly strong and durable.

The invention consists of novel features and parts and combinations of the same, which will be more fully described hereinafter and then pointed out in the claims.

A practical embodiment of the invention is represented in the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is an enlarged inverted plan view of the improvement; Fig. 2 is a transverse section of the same on the line 2—2 of Fig. 1, and Fig. 3 is a similar view of the same on the line 3—3 of Fig. 1.

Pairs of pile-carrying ground warp threads A, A′ alternate with pairs of non-pile carrying reinforcing ground warp threads B, B′, and on the said ground warp threads A, A′ are looped pile threads C in the form of Persian knots, that is, each pile thread is looped completely around the ground warp thread A′ and passed under the other ground warp thread A, and extended up on the outside thereof, as plainly shown in the drawings. The pile threads C are arranged in transverse rows and are bound in place by binding weft threads D, D′ interwoven with the ground warp threads A, A′ and B, B′ and located on the opposite sides of a transverse row of the pile threads C. Between the binding weft threads D, D′, located between successive rows of the pile threads C, are arranged supplemental or reinforcing weft threads E, E′, extending under the pile carrying ground warp threads A, A′ and passing alternately over and under successive non-pile carrying ground warp threads B, B′, that is, the supplementary or reinforcing weft threads E, E′ pass over the non-pile carrying ground warp threads B, B′ in a lowermost position at a time, and pass under the non-pile carrying ground warp threads B, B′ in a raised position at a time, as will be readily understood by reference to Figs. 2 and 3.

Although but two non-pile carrying ground warp threads B, B′ and two reinforcing threads E, E′ are shown and described, it is evident that only one or more such non-pile carrying ground warp threads and reinforcing weft threads may be used in the manner described. The reinforcing weft threads E, E′ are preferably of coarse material so as to give the desired stiffness and weight to the back of the body of the fabric.

The pile fabric as shown and described can be readily woven on a loom of simple construction.

It is understood that the reinforcing weft threads E, E′ are arranged in a plane below the plane of the binding weft threads D, D′, as plainly shown in Figs. 2 and 3, and hence an exceedingly heavy and stiff back is provided which readily adheres to a floor without danger of the edges of the rug crumpling or turning up.

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

1. A woven pile fabric comprising ground warp threads, pile threads, each looped on a pair of adjacent ground warp threads, binding weft threads passing alternately over and under the said ground warp threads, and reinforcing weft threads arranged in a plane below the plane of the said binding weft threads, the said reinforcing weft threads passing over the ground warp threads in a lowermost position at the time.

2. A woven pile fabric comprising ground warp threads, arranged in pairs, pile threads interlooped with alternate pairs of ground warp threads, binding weft threads passing alternately over and under the ground warp threads of each pair, and reinforcing weft threads arranged in a plane below the said binding weft threads and interwoven with the non-pile carrying ground warp threads, the said reinforcing weft threads being located between the adjacent binding weft threads.

3. A woven pile fabric comprising ground warp threads, arranged in pairs, pile threads interlooped with alternate pairs of ground warp threads, binding weft threads passing alternately over and under the ground warp

threads of each pair, and reinforcing weft threads interwoven with the non-pile carrying ground warp threads and arranged between the adjacent binding weft threads located between adjacent transverse rows of pile threads, the said reinforcing weft threads being located in a plane below the plane of the said binding weft threads.

4. A woven pile fabric comprising ground warp threads arranged in pairs of pile carrying and non-pile carrying ground warp threads, pile threads interlooped with the pile carrying ground warp threads, binding weft threads passing alternately over and under the ground warp threads of each pair, and reinforcing weft threads interwoven with the non-pile carrying ground warp threads between the adjacent binding weft threads, the said reinforcing weft threads passing under the pairs of pile carrying ground warp threads and alternately under and over the non-pile carrying ground warp threads, and the said reinforcing weft threads being arranged in a plane below the plane of the said binding weft threads.

5. A woven pile fabric comprising pile carrying ground warp threads arranged in pairs, pile threads interlooped with the said pairs of ground warp threads, non-pile carrying reinforcing ground warp threads arranged between adjacent pairs of pile carrying ground warp threads, binding weft threads interwoven with the said pile carrying ground warp threads and with the said non-pile carrying ground warp threads, and reinforcing weft threads interwoven with the said non-pile carrying ground warp threads and arranged in a plane below the plane of the said binding weft threads.

6. A woven pile fabric comprising pile carrying ground warp threads arranged in pairs, pile threads interlooped with the said pairs of ground warp threads, non-pile carrying reinforcing ground warp threads arranged between adjacent pairs of pile carrying ground warp threads, binding weft threads interwoven with the said pile carrying ground warp threads and with the said non-pile carrying ground warp threads, and reinforcing weft threads interwoven with the said non-pile carrying ground warp threads and located between adjacent binding weft threads extending between successive transverse rows of pile threads, the said reinforcing weft threads being arranged in a plane below the plane of the said binding weft threads.

7. A woven pile fabric comprising pile carrying ground warp threads arranged in pairs, pile threads interlooped with the said pairs of ground warp threads, non-pile carrying reinforcing ground warp threads arranged between adjacent pairs of pile carrying ground warp threads, binding weft threads interwoven with the said pile carrying ground warp threads and with the said non-pile carrying ground warp threads, and reinforcing weft threads interwoven with the said non-pile carrying ground warp threads and arranged in a plane below the plane of the said binding weft threads.

8. A woven pile fabric comprising pile carrying ground warp threads arranged in pairs, pile threads interlooped with the said pairs of ground warp threads, non-pile carrying reinforcing ground warp threads arranged between adjacent pairs of pile carrying ground warp threads, binding weft threads interwoven with the said pile carrying ground warp threads and with the said non-pile carrying ground warp threads, and reinforcing weft threads passing under the pile carrying warp threads and alternately over and under the non-pile carrying ground warp threads, the said reinforcing weft threads being arranged in a plane below the plane of the said binding weft threads.

9. A woven pile fabric comprising pile carrying ground warp threads arranged in pairs, pile threads interlooped in the form of Persian knots with the said pile carrying warp threads arranged between pairs of pile carrying warp threads, binding weft threads for binding the said pile carrying ground warp threads and the said non-pile carrying ground warp threads, and reinforcing weft threads extending under the pile carrying weft threads and interwoven with the non-pile carrying ground warp threads, the said reinforcing weft threads being arranged in a plane below the plane of the said binding weft threads.

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

JAMES KARMI DALKRANIAN.

Witnesses:
THEO. G. HOSTER,
EVERARD B. MARSHALL.