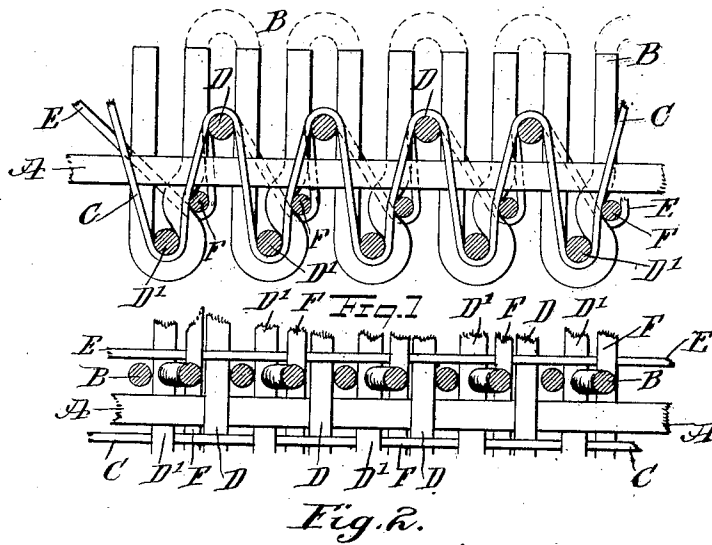


No. 829,189.

PATENTED AUG. 21, 1906.

F. A. WHITMORE.
WOVEN PILE FABRIC.
APPLICATION FILED NOV. 11, 1904.



WITNESSES:

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WOVEN PILE FABRIC.

No. 829,189.

Specification of Letters Patent.

Patented Aug. 21, 1906.

Application filed November 11, 1904. Serial No. 232,268.

To all whom it may concern:

Be it known that I, FRED A. WHITMORE, a citizen of the United States, and a resident of Philadelphia, in the county of Philadelphia and State of Pennsylvania, 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 machine-woven pile fabric which is exceedingly durable in construction to withstand considerable wear and which is arranged to show the pattern alike on both faces.

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

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 both views.

Figure 1 is an enlarged longitudinal section of the improvement, and Fig. 2 is a plan view of the same.

In the machine-woven fabric illustrated in Figs. 1 and 2 the letter A represents the ground or stuffing warp-thread; B, the continuous pile warp-thread; C, a binding warp-thread looped alternately around the upper and lower binding weft-threads D and D', of which the upper weft-threads D extend over or above the upper face of the ground warp-thread A and the weft-threads D' below the same, and the said pile warp-thread B is looped around the lower weft-threads D' and looped over pile-wires located above the upper weft-threads D, so that when the pile warp-thread is cut on the pile-wires the side arm of each pile extends between adjacent upper weft-threads D D.

By reference to the drawings it will be noticed that each pile warp-thread B extends between a stuffing warp-thread A and a binding warp-thread C to permit the use of a large number of pile warp-threads in a given width of the fabric with a view to produce an extremely large number of tufts capable of withstanding considerable wear. It will also be noticed that a stuffing warp-thread A and a binding warp-thread C are arranged one

alongside the other, so that the binding warp-thread C binds the weft-threads D and D' firmly onto the top and bottom of the stuffing warp-thread to give the desired firmness and strength to the fabric.

In order to produce a more durable and heavier body, it is desirable to employ an auxiliary binding warp-thread E and auxiliary weft-threads F, the latter being arranged below the ground warp-thread A between adjacent lower binding weft-threads D'. The auxiliary binding warp-thread E is alternately looped around the auxiliary weft-threads F and the upper weft-threads D, as plainly indicated in Figs. 1 and 2, and as the said auxiliary weft-threads F and the binding warp-threads C and E are preferably fine threads, in comparison to the coarser ground warp-thread A and the pile warp-thread B, the pattern produced by the pile appears alike on both faces of the fabric, and the said weft-threads D, D', and F, as well as the warp-threads A, C, and E, are practically not visible on either face of the fabric.

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

A woven pile fabric having a ground warp-thread, upper and lower binding weft-threads arranged alternately above and below the said ground warp-thread, a binding warp-thread looped around the said upper and lower binding weft-threads, auxiliary binding weft-threads below the said ground warp-threads, an auxiliary binding warp-thread looped around the said auxiliary binding weft-threads and the upper weft-threads, and a continuous pile warp-thread looped around the lower binding weft-threads and having their pile-arms extending through the fabric body formed by the said ground warp-threads, the upper and lower binding weft-threads, the binding warp-thread, the auxiliary binding weft-thread and the auxiliary binding warp-thread.

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

FRED A. WHITMORE.

Witnesses:

W. B. PHELPS,
ROBT. G. FOSTER.