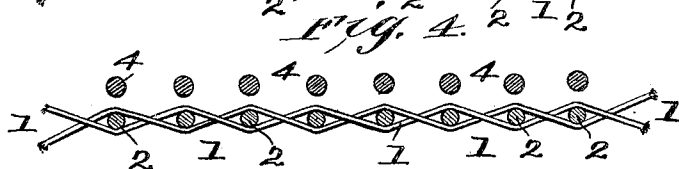
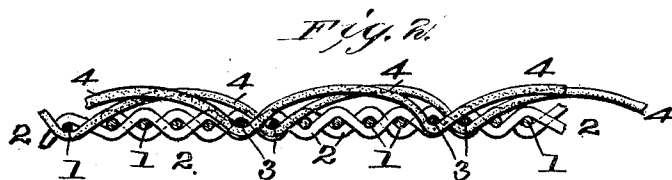
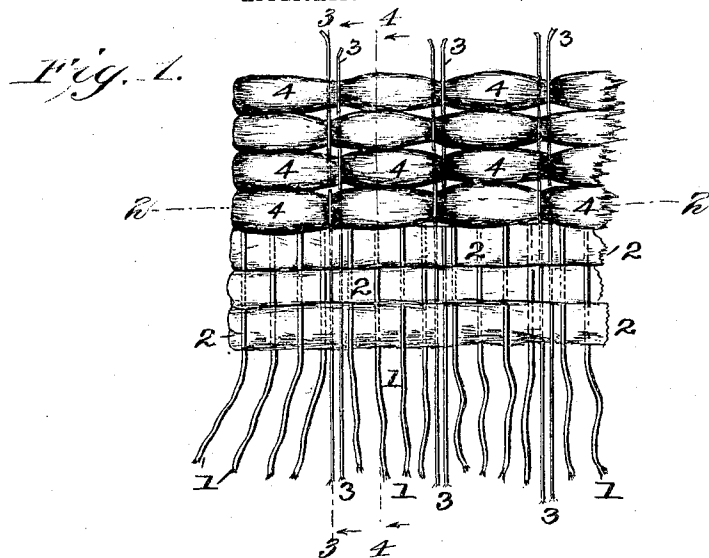


H. SARAFIAN.
WOVEN FABRIC.

APPLICATION FILED AUG. 29, 1903.



WITNESSES:

Frederick Bradford
Amos W. Hall

INVENTOR

Hovsep Sarafian
BY *Munn & Co.*
ATTORNEYS

UNITED STATES PATENT OFFICE.

HOVCEP SARAFIAN, OF YONKERS, NEW YORK.

WOVEN FABRIC.

No. 802,942.

Specification of Letters Patent.

Patented Oct. 24, 1905.

Application filed August 29, 1903. Serial No. 171,169.

To all whom it may concern:

Be it known that I, HOVCEP SARAFIAN, a citizen of the United States, residing at Yonkers, in the county of Westchester and State of New York, have made certain new and useful Improvements in Woven Fabrics, of which the following is a specification.

In the present invention I have aimed at producing a fabric which combines a body or ground portion having maximum cheapness, strength, and durability, with a top or surface portion formed of better material, which may be attached to the body in the process of weaving the latter without any special manipulation of the loom.

The invention is embodied in the construction and arrangement of parts, as hereinafter described, and illustrated in the accompanying drawings, in which—

Figure 1 is a plan view of a portion of a fabric constructed according to my invention. Fig. 2 is an enlarged cross-section on the line 2 2 of Fig. 1. Figs. 3 and 4 are longitudinal sections on the lines 3 3 and 4 4 of Fig. 1, the threads or strands composing the fabric being shown widely separated for the purpose of better illustration.

The ground or body portion of the fabric is composed of warp-threads 1 and thick or heavy weft 2. These are interwoven, as will be understood by reference to Figs. 1 and 2, in a well-known manner, such as is practiced in the weaving of ingrain carpets. At intervals in the ground-warp 1 I arrange supplemental warp-threads 3 (see Fig. 1) for the purpose of tying in and securing the top weft 4, which forms the ornamental or better portion of the fabric. The warp-threads 3 are smaller or finer than the ground-warp 1, and they may be colored for securing a more ornamental effect in the surface of the fabric. It will be understood that the supplemental warp 3 is interwoven with the ordinary weft 2 the same as the ground-warp 1 and that it is interwoven with the top weft 4 in the same way, whereas the ground-warp 1 is not interwoven with the top weft 4, but passes underneath the same, as will be understood from the drawings. The body of the fabric, composed of the warp 1 and weft 2, is formed of cheap but strong and durable material, such as cotton or jute, and the top portion 4 is composed of better material, such as worsted or

silk. Waste silk may be advantageously employed for this purpose, since it possesses all the qualities desired, in addition to cheapness.

It will be seen that in the fabric thus formed the ornamental top portion or weft 4 is interwoven with and tied to the body by means of the supplemental warp 3 without requiring any special manipulation of the loom, and hence, in the matter of time and labor, the fabric may be produced at practically the same cost as a fabric composed of materials having a uniform quality or cost. The ornamental effect of the top surface is enhanced by reason of the fact that the silk or worsted weft 4 spans a series of ground-warp 1, and it is to be noted as an important feature that the heavy worsted or silk threads composing such weft are drawn down only just enough to properly secure them and not through the body of the fabric, and consequently a certain length of such threads will cover more surface than is possible in other fabrics of the class. In other words, practically the entire length of the heavy worsted or silk threads 4 is floated on the upper side or face of the fabric.

It is to be understood that the weft 4 will ordinarily be colored before being incorporated in the fabric, but that I do not restrict myself to the employment of colored weft.

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

A fabric having a warp and weft ground portion constituting the reverse side of the fabric and being of a low-grade material and a warp and weft surface portion constituting the ornamental obverse side of the fabric and being of a high-grade material, the said surface portion having thick ornamental surface threads completely overspreading the said ground portion and each spanning a plurality of the threads of the ground portion, the threads for holding the said thick ornamental surface thread to the ground portion being very thin and interwoven with the ground portion to practically utilize the entire lengths of the said thick-spread ornamental surface threads as the ornamental surface of the obverse side of the fabric.

HOVCEP SARAFIAN.

Witnesses:

AMOS W. HART,
SOLON C. KEMON.