

No. 667,583.

Patented Feb. 5, 1901.

H. SARAFIAN.  
WOVEN PILE FABRIC.

(Application filed May 16, 1899. Renewed May 9, 1900.)

(No Model.)

FIG. 1.

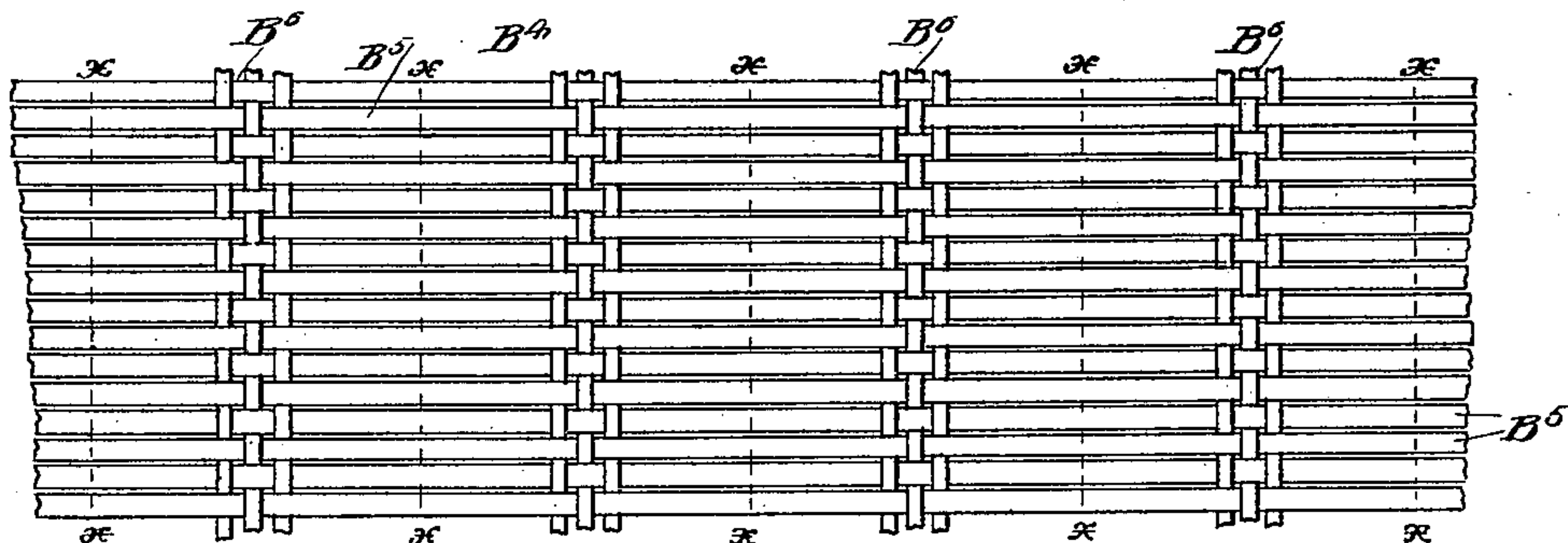


FIG. 2.

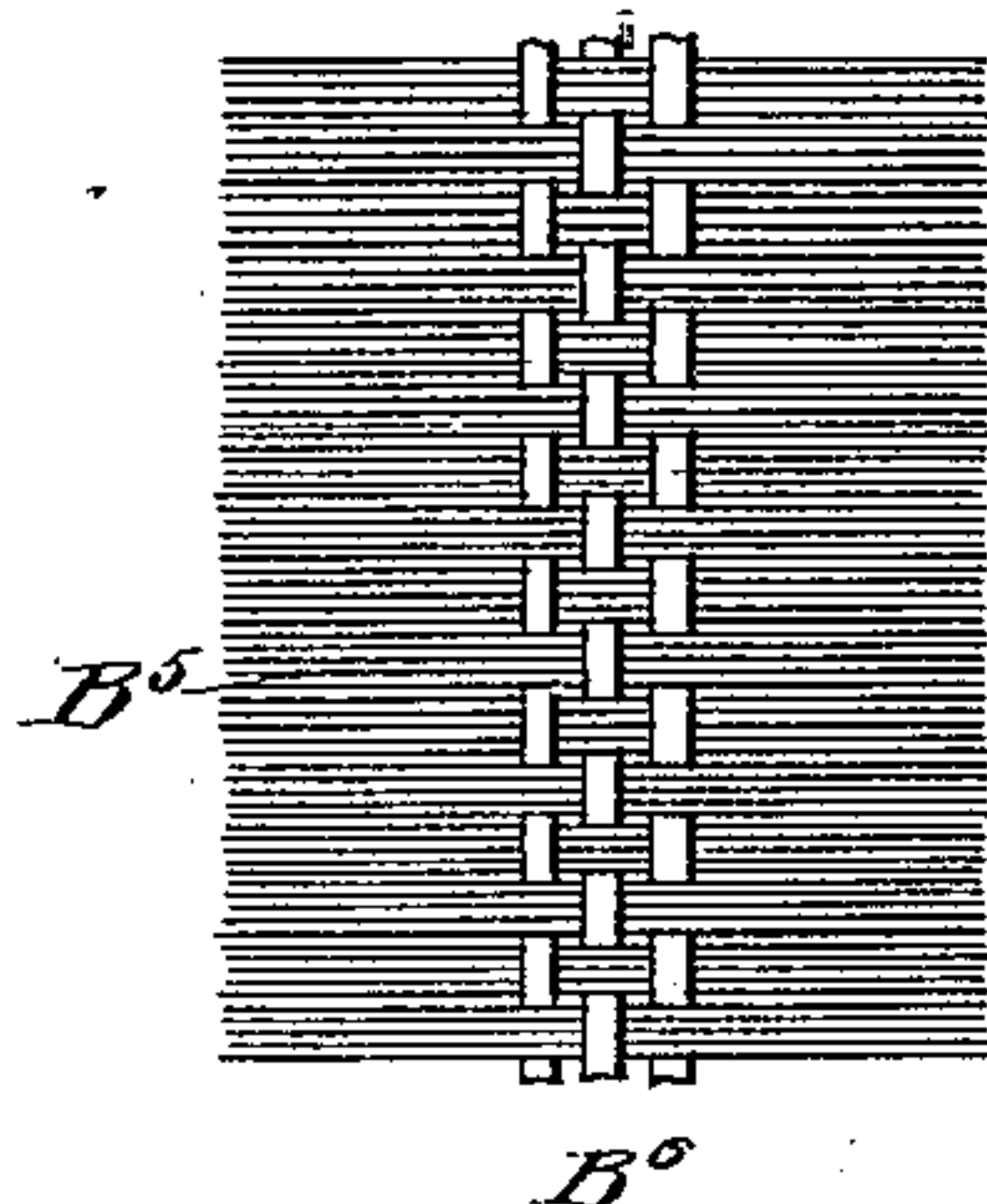


FIG. 3.

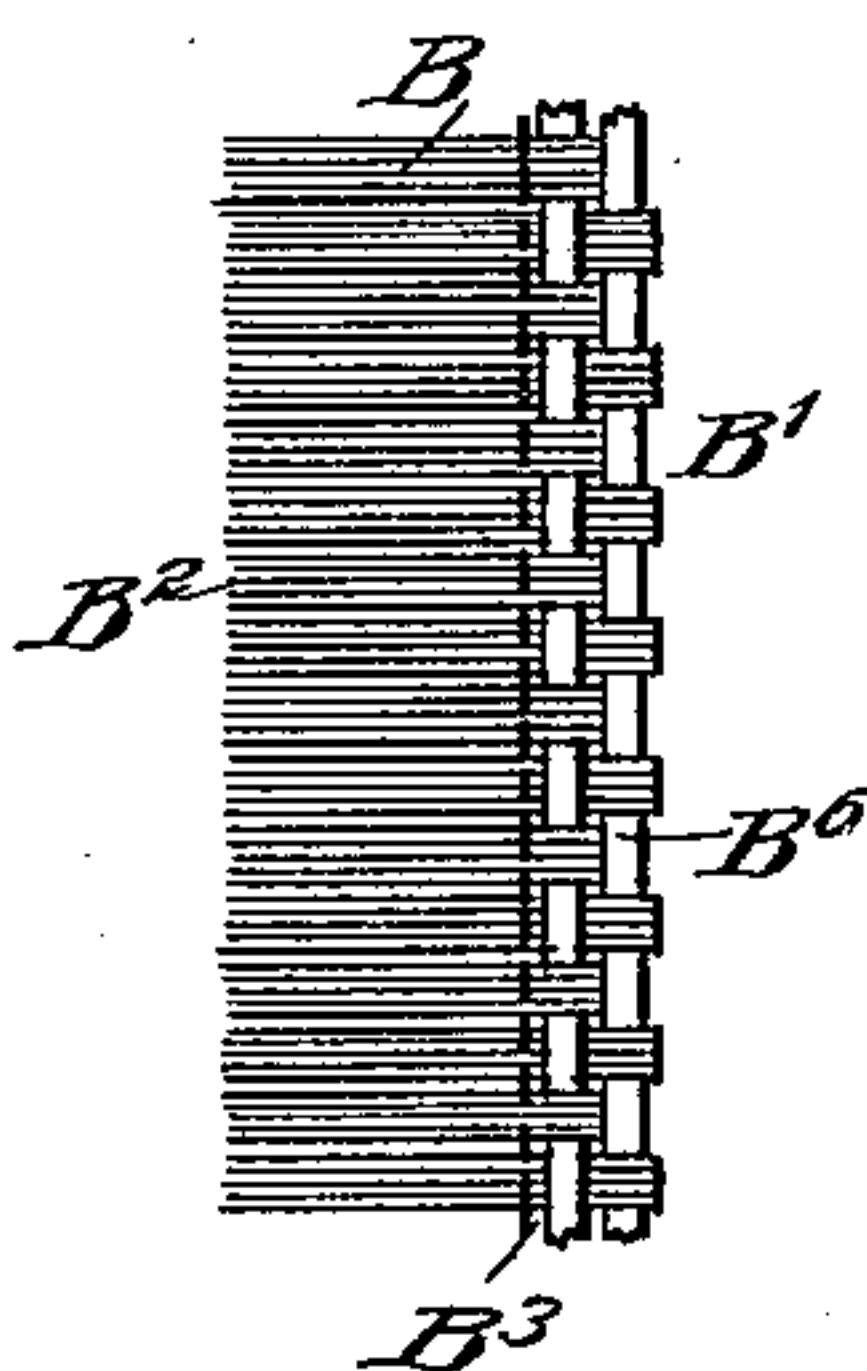


FIG. 4.

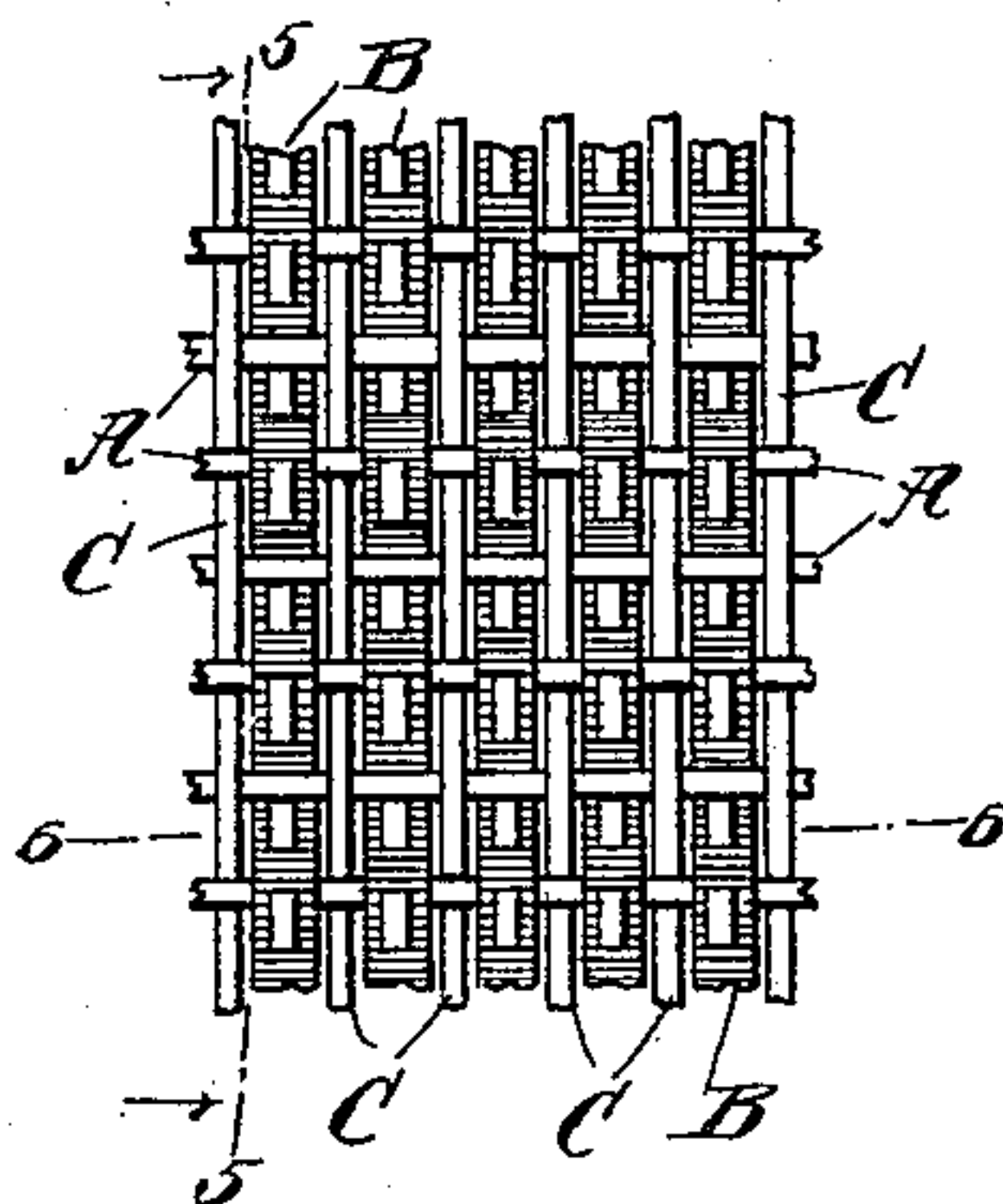


FIG. 5.

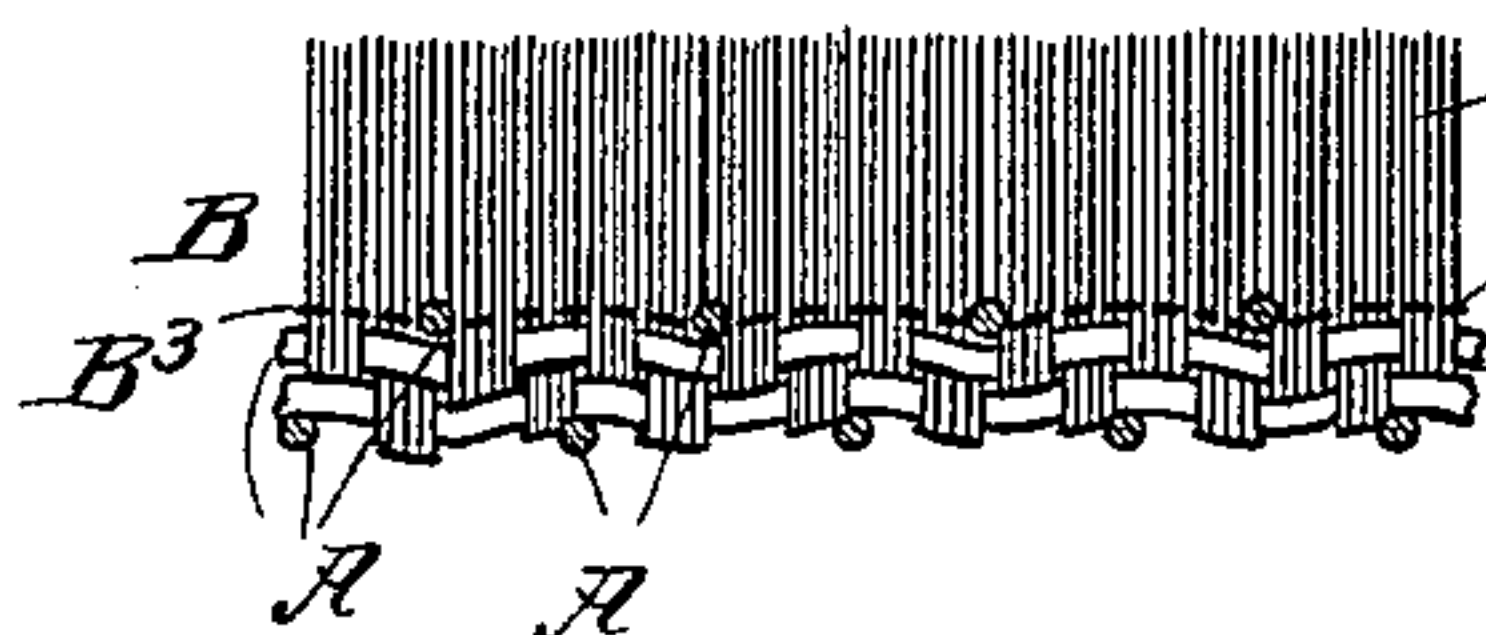


FIG. 7.

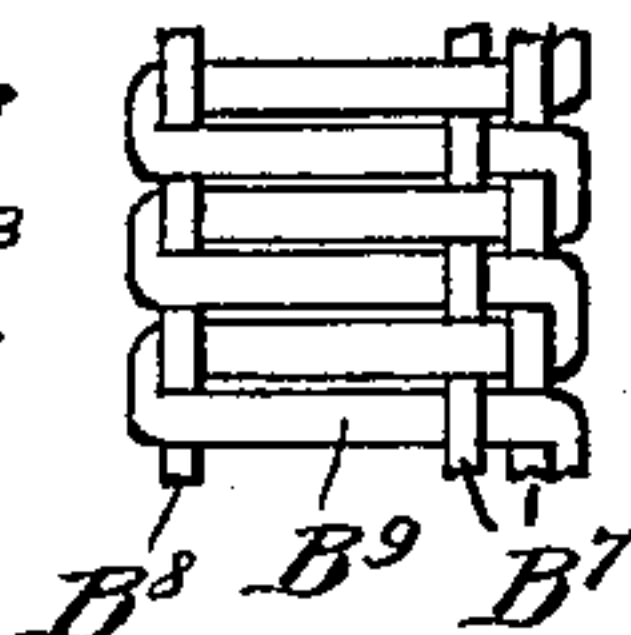


FIG. 6.

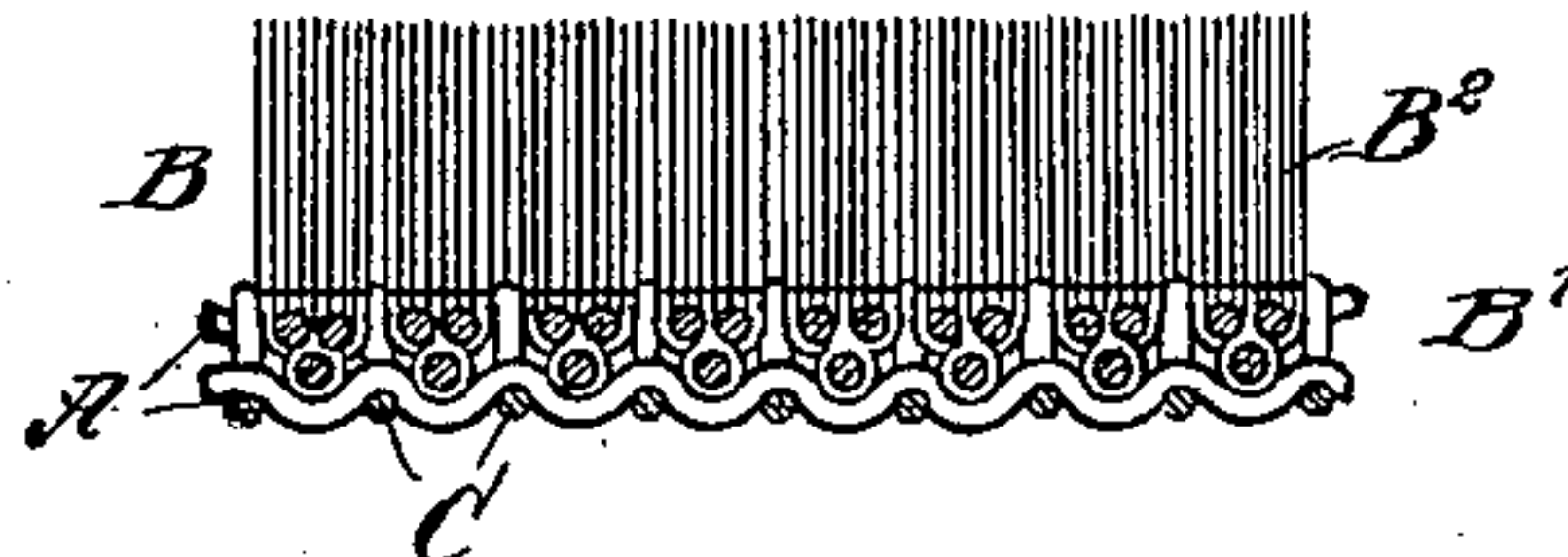
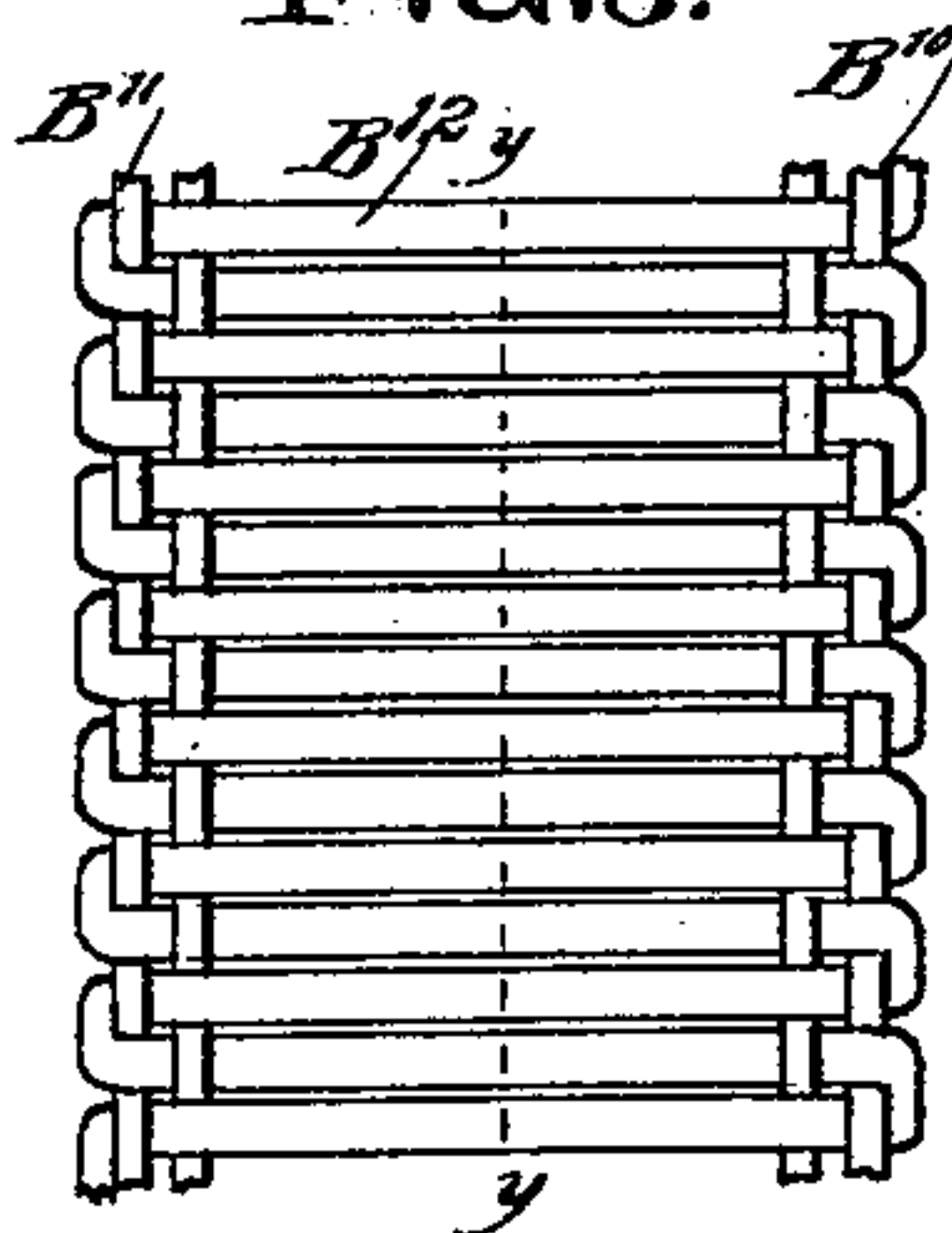


FIG. 8.



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HOVCEP SARAFIAN, OF TITUSVILLE, PENNSYLVANIA.

## WOVEN PILE FABRIC.

SPECIFICATION forming part of Letters Patent No. 667,583, dated February 5, 1901.

Application filed May 16, 1899. Renewed May 9, 1900. Serial No. 16,108. (No model.)

*To all whom it may concern:*

Be it known that I, HOVCEP SARAFIAN, of Titusville, in the county of Crawford and State of Pennsylvania, have invented a new and  
5 Improved Woven Pile Fabric, of which the following is a full, clear, and exact description.

The invention relates to textile fabrics; and its object is to provide a new and improved woven pile fabric which has a fine appearance  
10 and excellent wearing qualities and which may be readily woven without requiring highly-skilled labor.

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

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

Figure 1 is a plan view of the fabric for forming the pile weft-threads for the improved fabric. Fig. 2 is a like view of the  
25 blank pile weft-thread cut from the fabric shown in Fig. 1. Fig. 3 is a side elevation of the finished pile weft-thread. Fig. 4 is a rear face view of the finished fabric. Fig. 5 is a cross-section of the same on the line 5 5 in  
30 Fig. 4. Fig. 6 is a longitudinal section of the same on the line 6 6 in Fig. 4. Fig. 7 is a plan view of a modified form of the fabric for forming the pile weft-thread for the finished fabric, and Fig. 8 is a like view of another modified  
35 form of fabric for forming the pile weft-thread.

The improved pile fabric consists, essentially, of warp-threads A and pile weft-threads B interwoven with each other, as hereinafter  
40 more fully described, the warp-threads being of ordinary form and of suitable material, preferably, however, cotton, while the pile weft-threads B are formed with a woven back B', from which extend in one direction fringe-  
45 threads B<sup>2</sup>, which form the face for the finished fabric, and the woven back B' is interwoven with the warp-threads A in the usual manner of weaving ordinary fabrics, and as will be readily understood by reference to  
50 Figs. 4, 5, and 6.

In order to form the pile weft-threads, I

first weave a fabric B<sup>4</sup>, (shown in Fig. 1,) having weft-threads B<sup>5</sup>, preferably of bunched silk, and sets of warp-threads B<sup>6</sup>, two, three, or more in number, said sets of warp-threads  
55 being placed a suitable distance apart. The fabric thus produced is cut transversely of the weft-threads midway between the sets of warp-threads B<sup>6</sup> along the lines *xx*, as indicated in Fig. 1, to form a strip shown in Fig. 60  
2, which is doubled up to form the woven back B', the fringe-threads B<sup>2</sup>, formed by the weft-threads B<sup>5</sup>, extending in one direction from the woven back, and the doubled-up parts  
65 being securely united with each other at the woven back by a row of stitching B<sup>3</sup>, as illustrated in Fig. 3. Thus the fringe-threads B<sup>2</sup> extend in bunches from the woven and stitched back, and this filling-thread is inter-  
70 woven with the warp-threads A, so that the fringe-threads B<sup>2</sup> extend from the face of the fabric only, thus completely hiding the woven back and the warp-threads. Now by arranging the weft-threads B<sup>5</sup> of the preliminary fabric B<sup>4</sup> in different colors it is evident that  
75 in the finished fabric the differently-colored fringe-threads B<sup>2</sup> give a fine appearance to the face of the fabric, either according to a predetermined design or an irregular design, as the case may be.  
80

In making the fabric I prefer to employ, in addition to the pile weft-threads B, filling or spacing threads C, of cotton or other material, interwoven with the warp-threads and alternately with the pile weft-threads B, as  
85 illustrated in Figs. 4 and 6. By this arrangement the spacing-threads C give additional strength to the back of the fabric.

Instead of forming the pile weft-threads B in the manner described from the fabric B<sup>4</sup>  
90 I may form them as shown in Fig. 7, they having a plurality of selvage warp-threads B<sup>7</sup> on one side and a single warp-thread B<sup>8</sup> on the opposite side, a weft-thread B<sup>9</sup> being interwoven with said warp-threads. When  
95 this pile weft-thread is finished, the warp-thread B<sup>8</sup> is withdrawn, which leaves looped fringe-threads extending from the interwoven selvage warp-threads B<sup>7</sup>.

In Fig. 8 I represent another fabric for  
100 forming the pile weft-threads B, and in this case two sets of selvage warp-threads B<sup>10</sup> B<sup>11</sup>



are placed a suitable distance apart and interwoven with the weft-threads B<sup>12</sup>, and this fabric is then cut between the two sets of warp-threads B<sup>10</sup> B<sup>11</sup> along the line *y y* to  
5 form the pile weft-threads to be interwoven with the warp-threads A in the manner above described.

It is understood that by making the pile weft-threads in the manner above described  
10 and illustrated in Figs. 7 and 8 it is not necessary to employ the stitching B<sup>3</sup> required for uniting the doubled-up parts of the strip cut from the fabric B<sup>4</sup>, as above explained.

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

1. A woven pile fabric, comprising warp-threads, and pile weft-threads, each of the latter consisting of a strip formed of fringe-  
20 threads, and binding-threads, the binding-threads being interwoven with the fringe-threads at the center of their length so that the fringe-threads will project from each side of the binding-threads, the strip being folded  
25 and the parts secured together, forming a strip with a woven back from which the fringe-

threads all extend in one direction, substantially as and for the purpose set forth.

2. A woven pile fabric, consisting of warp-threads, pile weft-threads, each of the latter  
30 consisting of a strip formed of fringe-threads, and binding-threads interwoven with the fringe-threads at the center of their length, the strip being folded and the parts secured together, forming a strip with a woven back  
35 from which the fringe-threads all extend in one direction, and spacing-threads between the pile weft-threads, substantially as herein shown and described.

3. A pile weft-thread for pile fabrics, con-  
40 sisting of a strip formed of fringe-threads projecting from each side of a woven center, the strip being folded at the longitudinal center and the parts stitched together adjacent to the woven portion, whereby a strip with a  
45 woven back from which all the fringe-threads extend will be formed, as set forth.

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Witnesses:

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