

No. 860,708.

PATENTED JULY 23, 1907.

W. L. TURNER.  
WOVEN FABRIC.

APPLICATION FILED DEC. 6, 1905.

Fig. 1.

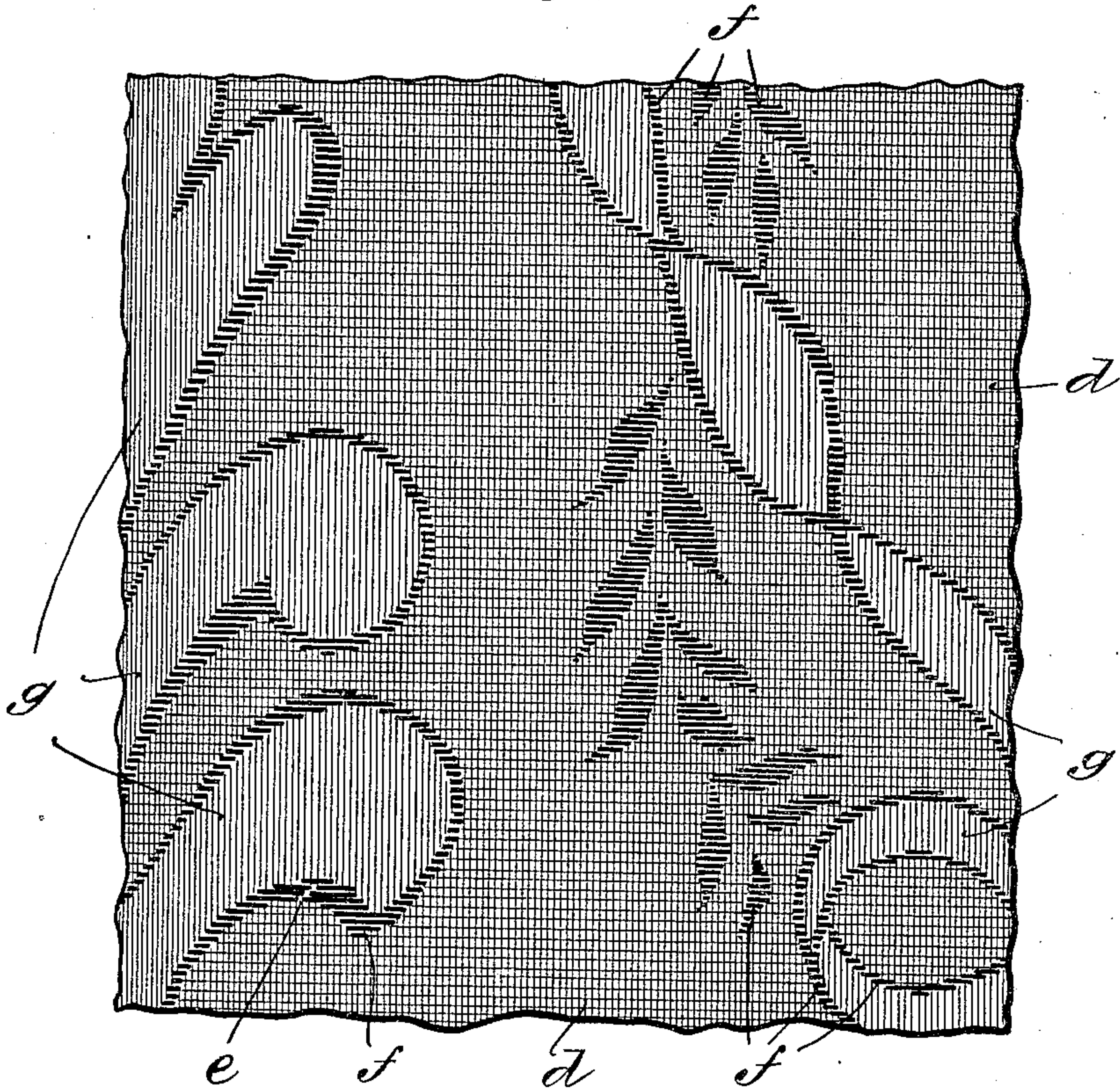


Fig. 2.

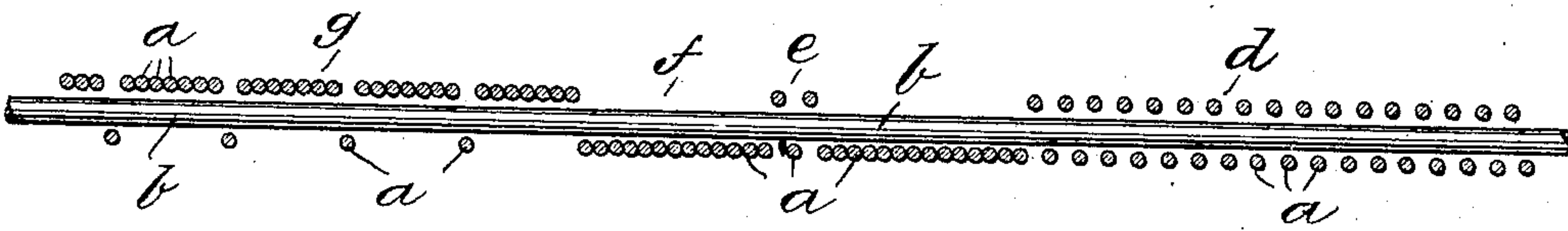
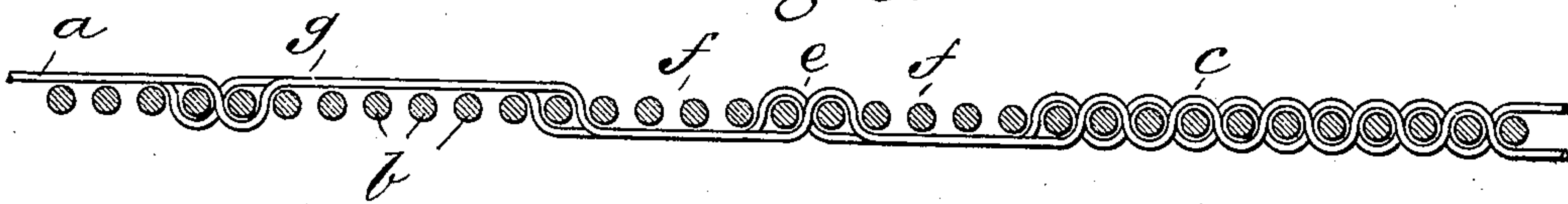


Fig. 3.



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# UNITED STATES PATENT OFFICE.

WILLIAM L. TURNER, OF PHILADELPHIA, PENNSYLVANIA.

## WOVEN FABRIC.

No. 860,708.

Specification of Letters Patent.

Patented July 23, 1907.

Application filed December 6, 1905. Serial No. 290,515.

*To all whom it may concern:*

Be it known that I, WILLIAM L. TURNER, a citizen of the United States, residing at the city of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Woven Fabrics, of which the following is a specification.

My invention has relation to a woven fabric produced to closely imitate a certain plush or pile upholstery fabric known as "Verona" velour; and in such connection it relates more particularly to the arrangement, thickness and colors of the threads constituting the structure of the fabric.

The principal object of my invention is to employ in the weaving of the fabric thick or heavy filler weft-threads, varying in color, hue or tint from the thin warp-threads, to give body to the fabric by being embedded therein and to assist in the production of a pattern or design when raised and floating on the fabric, to thereby produce in the fabric an additional pattern or design and of two or more tones to closely imitate by the introduction of the heavy filler weft-threads in conjunction with the thin warp-threads a rib-like effect to the ground of "Verona" velour fabric, and by the different colored patterns or designs produced by the floating of the thin warp-threads and heavy filler or weft-threads on the fabric the different colored patterns or designs of a "Verona" velour fabric.

The nature and scope of my invention will be more fully understood from the following description taken in connection with the accompanying drawings forming part hereof, in which

Figure 1, is a plan view of a portion of the completed fabric embodying main features of my invention; and Figs. 2 and 3, are cross-sectional views of the fabric taken respectively parallel to the weft and warp-threads thereof.

Referring to the drawings *a*, represents the thin warp-threads and *b*, the heavy filler or weft-threads. In the formation of the fabric the thin warp-threads *a*; and heavy filler or weft threads *b*, are so manipulated as to form a grosgrain or tabby weave *c*, in which the filler or weft-threads *b*, are embedded and completely covered by the same thus producing by the use of heavy filler or weft-threads a rib-like effect in the ground *d*, of the fabric as shown in Fig. 3, and similar in appearance and in thickness to that of the ground of a "Verona" velour fabric. To impart to the pattern or design the contrasting tones of the design or pattern of "Verona" velour fabric the color of the thin warp-threads *a*, in the present instance is green, and the color of the heavy filler or weft-threads *b*, is black.

In the formation of the pattern or design on the ground *d*, of the fabric the warp-threads and weft-threads are raised and in the present instance, the warp-threads *a*, for seven picks, are permitted to float on the fabric before being again interwoven with the fabric, whereas the thick weft-threads *b*, for only four picks float over the warp-threads *a*, and are then bound to the ground *d*, by the warp-threads, as shown at *e*, in Figs. 1, 2 and 3. The binding of long floats of the thick weft-threads is necessary as the same in projecting above the ground *d*, are liable to be caught by objects passing closely over the fabric. In the fabric so formed the design or pattern produced closely imitates the well known "Verona" velour fabric in its color effects and the design *f*, formed by the heavy filler or weft-threads *b*, projects above the design or pattern *g*, formed by the thin warp-threads *a*, thus heightening the color effects of the design and imparting to the design *g*, formed by the warp-threads *a*, sunken effects wherever the same is surrounded or inclosed by a design *f*, formed of heavy filler or weft-threads. The designs or patterns *f* and *g*, when separated and when formed by warp and weft-threads only, differ greatly in their appearance with respect to the ground *d*, in that the design *f*, formed by the weft-threads appears in bold relief thereon in contradistinction to the pattern or design *g*, formed by the warp-threads *a*, which by being of the same color as the ground *d*, and by being only slightly raised above the same appear in softer and less distinct outline thereon. This contrasting effect is greatly heightened by using silk or mercerized cotton for the warp-threads *a*, and glazed cotton or other material dyed black or any color contrasting in hue or depth with the warp-threads for the weft-threads *b*. Thus a new fabric is produced, which on account of its similarity to the "Verona" velour fabric in the color effects of the pattern or design and of the ground and also of the similarity of the same to damask on account of its grosgrain or tabby weave in the ground *d*, and its satin weave in the design *g*, is defined as forming what I term a "Verona" damask fabric. Wherever the weft-threads float on the face a warp float weave is formed on the back and a filler or weft satin back, wherever the warp-threads float on the face. If desired, to the ground *d*, can be given a moiré finish by pressing the same in an ordinary well known manner.

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

1. A woven fabric, consisting of thin warp-threads and thick weft-threads interwoven to form a ground of grosgrain or tabby weave, and the warp-threads floating to

form a figure, said thick weft-threads arranged to give  
body to the fabric and impart to the same a rib-like ap-  
pearance, and when floating over the warp-threads to form  
an additional pattern or design which projects and appears  
5 in bold relief above the ribbed ground and the figure  
formed by the floating warp-threads over the weft-threads.

2. A woven fabric, consisting of thin colored warp-  
threads and thick weft-threads differing in color from  
those of the warp-threads interwoven to form a ground of  
10 grosgrain or tabby weave, and the warp-threads floating to  
form a figure, said thick weft-threads arranged to give

body to the fabric and impart to the same a rib-like ap-  
pearance and when floating over the warp-threads to form  
an additional pattern or design differing in color from the  
figure formed by the floating warp-threads over the weft- 15  
threads.

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

WILLIAM L. TURNER.

Witnesses:

J. WALTER DOUGLASS,  
THOMAS M. SMITH.