

H. HARDWICK.  
Carpet Fabric.

No. 205,638.

Patented July 2, 1878.

FIG. 1.

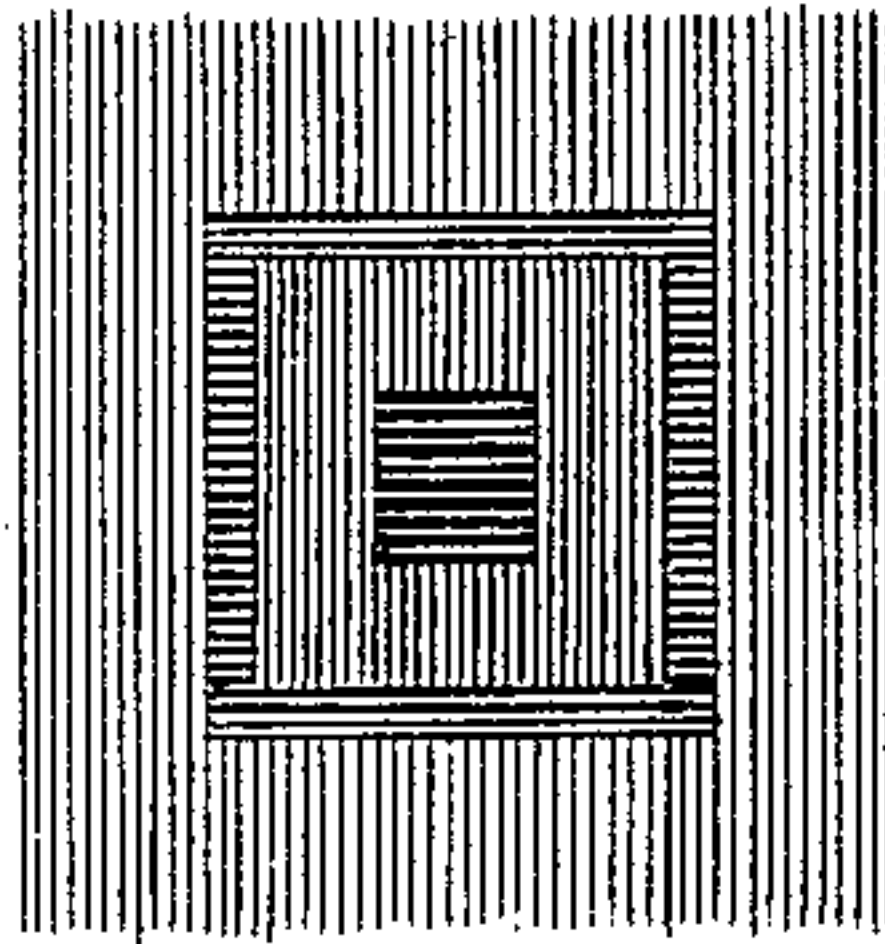


FIG. 2.

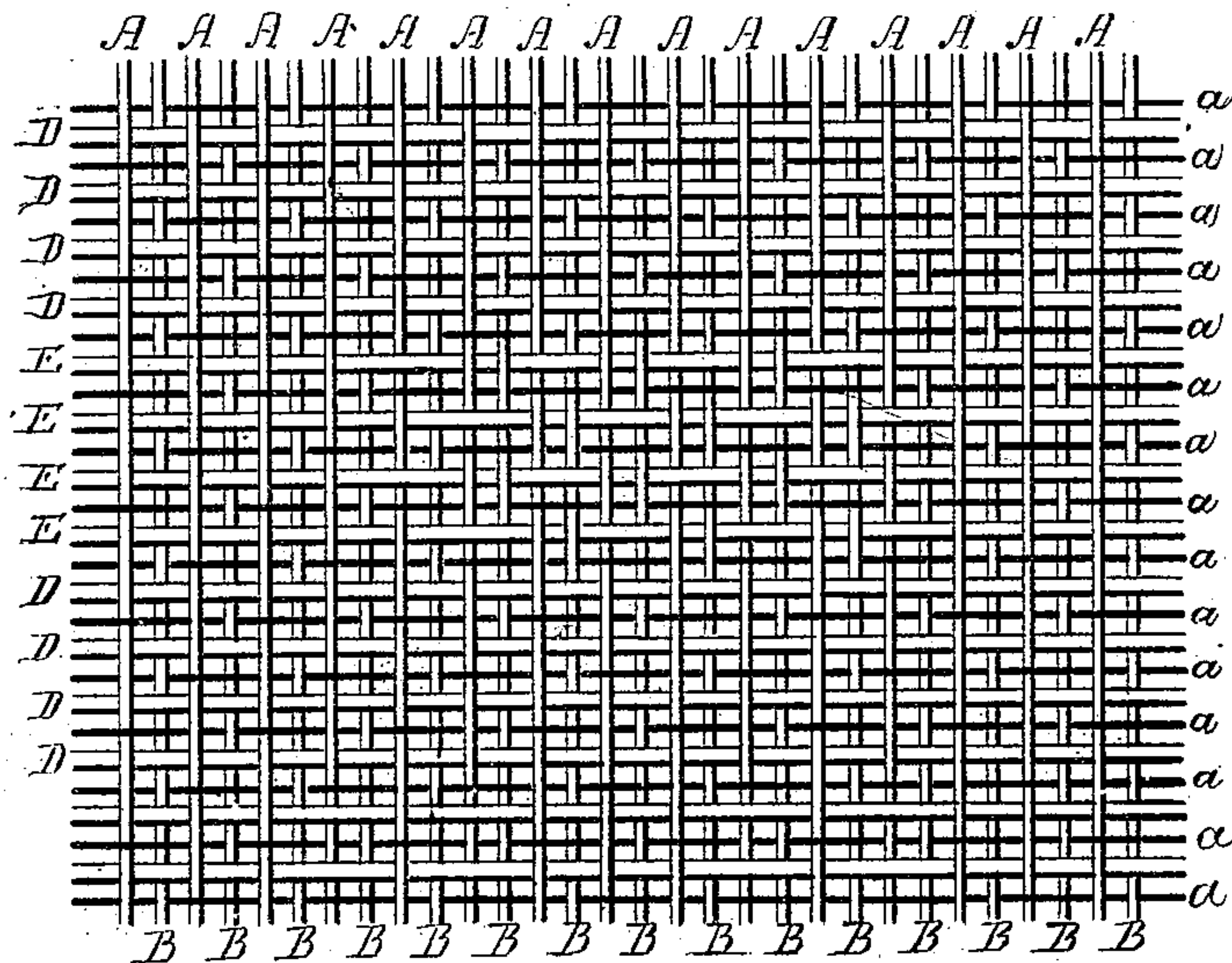


FIG. 3.

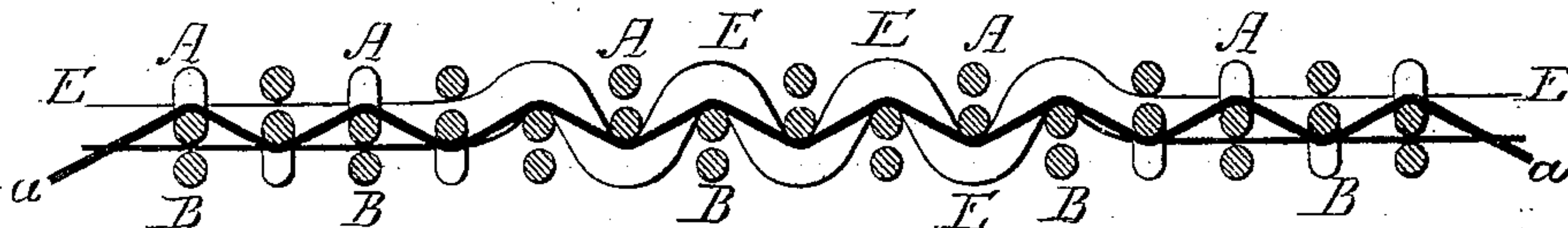
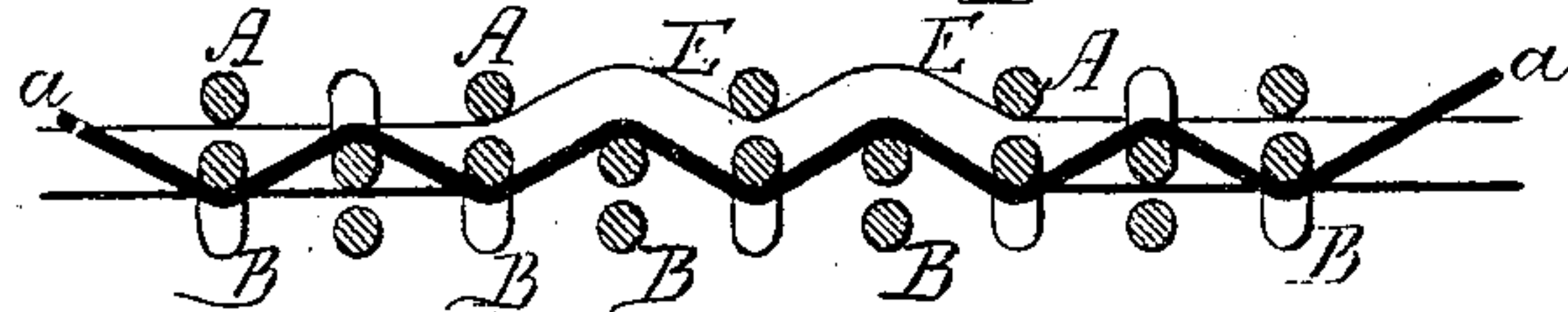


FIG. 4.



Witnesses,  
John W. Heimerl  
Thomas W. Shann

Inventor  
Harry Hardwick  
by his Attorneys  
Howson & Son

# UNITED STATES PATENT OFFICE.

HARRY HARDWICK, OF PHILADELPHIA, PENNSYLVANIA.

## IMPROVEMENT IN CARPET FABRICS.

Specification forming part of Letters Patent No. **205,638**, dated July 2, 1878; application filed January 26, 1878.

*To all whom it may concern:*

Be it known that I, HARRY HARDWICK, of Philadelphia, Pennsylvania, have invented a new and useful Improvement in Carpet Fabrics, of which the following is a specification:

The main object of my invention is to construct a damask carpet with a greater variety of colors in a longitudinal line in the pattern than usual, a further object being to insure the homogeneity and durability of the fabric. These objects I attain in the following manner, reference being had to the accompanying drawing, in which—

Figure 1 is a diagram illustrating my invention; Fig. 2, a diagram illustrating the method of carrying my invention into effect; and Figs. 3 and 4, transverse sections.

In two-frame damask-carpet fabrics in which the filling-threads are embedded between the opposite face-warps it is impossible to obtain in the pattern more than two different colors in a longitudinal line, owing to the fact that the pattern is formed solely by the warp-threads.

This objection I overcome in a manner which will be understood on reference to the drawing, in which A A represent the figuring-warps of one face, and B B the figuring-warps of the other face, of the fabric, D D representing ordinary filling-wefts, and *a* fine binding-wefts, all of these being combined in the manner common to damask carpets.

E E represent thick wefts, which, instead of being entirely embedded between the warps, as are the threads D, are carried to the front and back of the fabric, as shown in Fig. 3, so as to appear upon both faces of the same and aid in forming the pattern upon each face, or are carried to the front of the fabric, as in Fig. 4, so as to appear in that pattern only.

These figuring-wefts E, it will be seen, are bound down by the figuring-warps A B, so that no "floating" of the wefts upon the surface of the fabric can occur, while at the same time the fabric is single and homogeneous throughout, thus insuring strength and durability.

I have shown in Figs. 2 and 3 figuring-wefts E passing over alternate figuring-warps on each face, and in Fig. 4 I have shown said wefts passing over alternate warps on one face only; but this exact arrangement need not necessarily be adhered to.

I have shown a portion of fabric having the figuring-wefts E in connection with adjacent portions of damask fabric, in which the filling-wefts D are embedded between the face-warps, this method of construction being preferred, because it enables me to use as filling throughout a considerable portion of the fabric cheap and coarse wefts D, the finer and more expensive wefts E being only introduced when a color differing from that of the warps A B is to be introduced into the pattern.

It is not absolutely necessary that the thin wefts *a* should always bear the exact relation shown and described in respect to the warps A B and the thick wefts, as the arrangement of said fine wefts may be varied without affecting the character of the invention.

I wish it to be understood that I do not desire to claim, broadly, a damask fabric in which the weft-threads are carried to the face to aid in the formation of the pattern; but

I claim as my invention—

The within-described carpet fabric, in which two or more sets of figuring-warps are combined with the usual fine binding-wefts and with wefts E, which appear upon one or both faces of the fabric, to aid in forming the pattern, and are bound down by the figuring-warps, so as to form a single and homogeneous fabric, as set forth.

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

HARRY HARDWICK.

Witnesses:

HARRY A. CRAWFORD,  
HARRY SMITH.