No. 616,774. Patented Dec. 27, 1898.

# J. C. DAVIS.

## WOVEN FABRIC.

(Application filed Apr. 6, 1898.)

(No Model.)

FIG. 1.

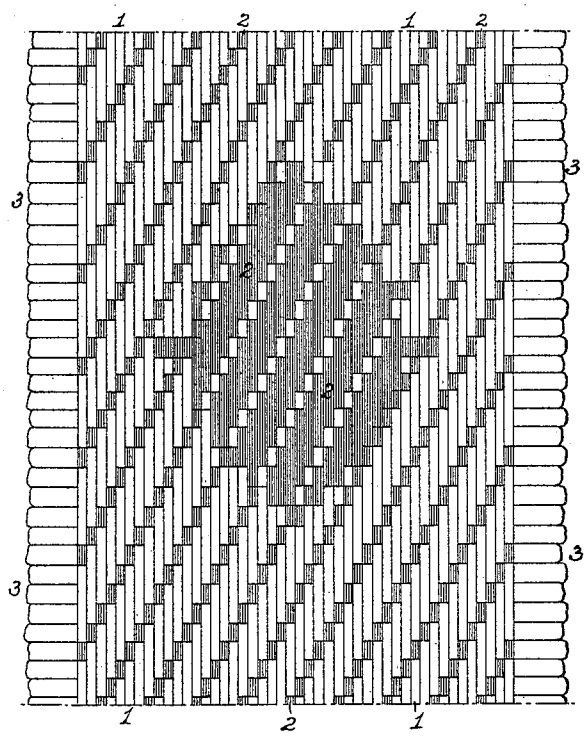
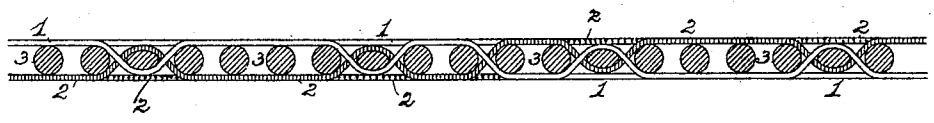



FIG. 2.




Witnesses:-
Hamilton D. Turner
Louis M. T. Whitehead.

Inventor:-
Joseph C. Davis.
by his Attorneys.
Howson & Howson

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

# UNITED STATES PATENT OFFICE.

JOSEPH C. DAVIS, OF PHILADELPHIA, PENNSYLVANIA.

## WOVEN FABRIC.

SPECIFICATION forming part of Letters Patent No. 616,774, dated December 27, 1898.

Application filed April 6, 1898. Serial No. 676,681. (No specimens.)

*To all whom it may concern:*

Be it known that I, JOSEPH C. DAVIS, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain Improvements in Woven Fabrics, of which the following is a specification.

The object of my invention is to provide a simple and easily-woven fabric for draperies, upholstery, and like purposes, said fabric having a double face each presenting a counterpart of the pattern of the other, and also having on each face a twill-weave both in ground and figure whenever the character of such ground or figure admits of such twill-weave.

In the accompanying drawings, Figure 1 is a view representing, on an enlarged scale, a part of one face of a fabric constructed in accordance with my invention; and Fig. 2 is an exaggerated section of the fabric taken in the direction of the warp.

The fabric is woven with three threads, two warps 1 and 2, and a single filling or weft 3, the shuttle carrying the latter being shot back and forth across the loom, so as to introduce the weft into each shed of the warp, binding warps of both faces at the same time. The warps are controlled by a Jacquard machine so as to produce the desired pattern, and the shedding of the warps is so controlled as to produce a twill effect both in the ground and figure of the pattern and on both sides of the fabric. One of the warp-threads—say warp 1—constitutes the ground-warp for one face of the fabric, and the other warp 2 constitutes the figure-warp for that face of the fabric, the ground and figure warps changing places on the other face, so that the pattern on each face is a counterpart of that on the other except as to reversal of colors. The weft-thread 3 serves not only as a stuffer to give body to the fabric, but also to bind the warp-threads of both faces simultaneously, as will be clearly understood on reference to Fig. 2, the filling being completely covered on both faces. Therefore cheap yarn can be used to add body to the fabric without detracting from the appearance of the faces of the same due to the fine warps, thus overcoming an objection to ordinary twilled jacquard fabrics in which the warp is generally covered and hidden by the weft at the tying-points.

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

1. The within-described woven fabric comprising two warps and a single weft the faces of the fabric being formed by the warps, and the warps passing from one face to the other to form the pattern, the weft serving as a stuffer and also binding a warp of each face simultaneously at the binding-points whereby the weft is wholly covered on each face by the warps, substantially as specified.

2. The within-described woven fabric comprising two warps and a single weft the faces of the fabric being formed by the warps, and the warps passing from one face to the other to form the pattern, said warps being twilled on both faces and the weft serving as a stuffer and also binding a warp of each face simultaneously at the binding-points whereby the weft is wholly covered on each face by the warps, substantially as specified.

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

JOSEPH C. DAVIS.

Witnesses:
WILL. A. BARR,
JOS. H. KLEIN.