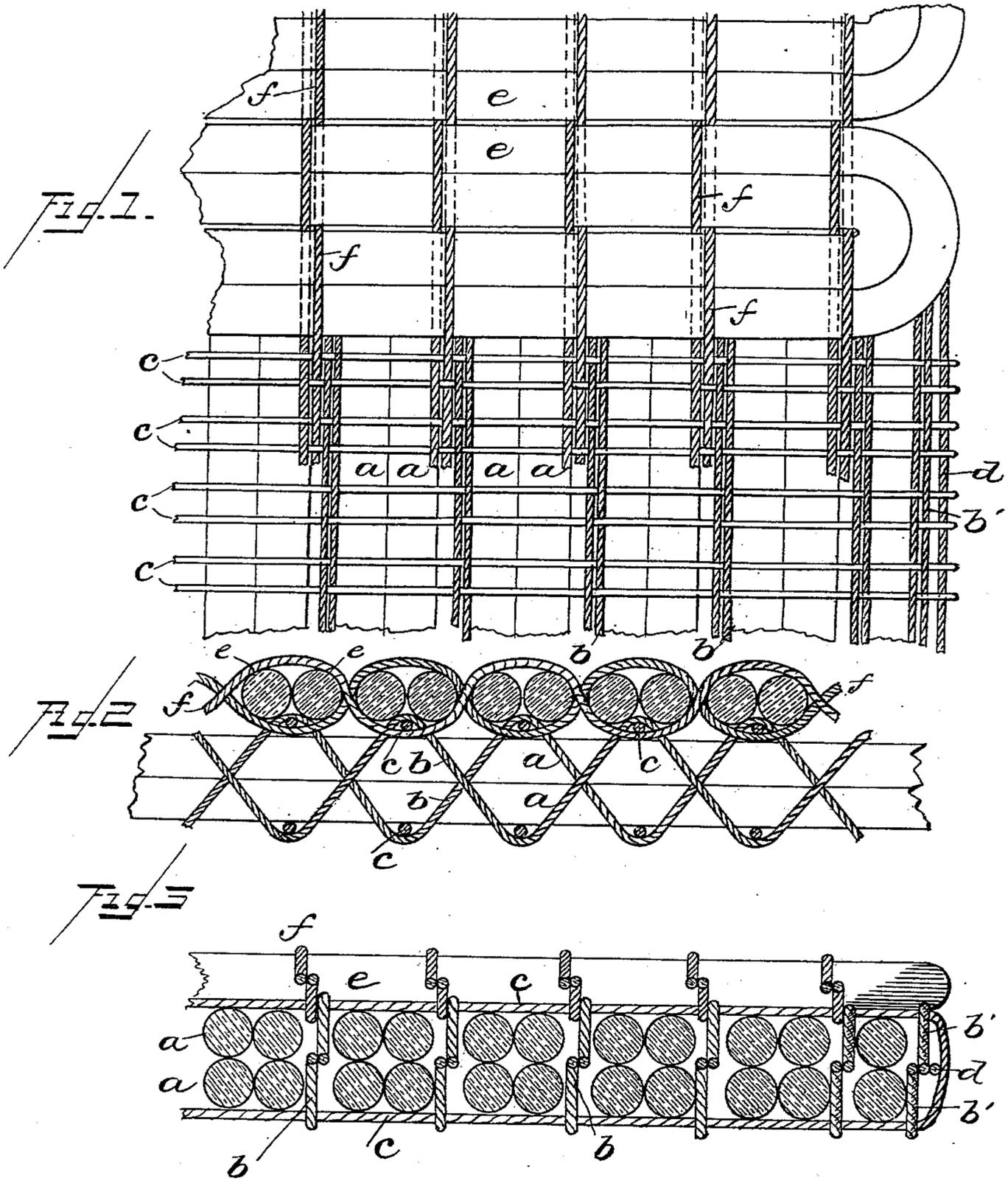


(Specimens.)

G. S. GRIFFITH, Jr.
CARPET OR UPHOLSTERY FABRIC.

No. 420,269.

Patented Jan. 28, 1890.



WITNESSES
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UNITED STATES PATENT OFFICE.

GOLDSBOROUGH S. GRIFFITH, JR., OF BALTIMORE, MARYLAND.

CARPET OR UPHOLSTERING FABRIC.

SPECIFICATION forming part of Letters Patent No. 420,269, dated January 28, 1890.

Application filed June 7, 1889. Serial No. 313,457. (Specimens.)

To all whom it may concern:

Be it known that I, GOLDSBOROUGH S. GRIFFITH, Jr., a citizen of the United States, residing in the city of Baltimore and State of Maryland, have invented a certain new and useful Improvement in Carpets or Upholstery Fabrics, of which the following is a full, clear, and exact description.

This invention relates to carpet fabrics, or fabrics for furniture-covering, of the character having a back of inferior material and a face of superior material; and the object of the invention is to produce a solid-back carpet or other fabric having good wearing properties and a smooth face, either adapted to receive designs by printing or having the design produced therein by colored yarns.

The invention consists of a carpet or other fabric having a back formed of longitudinal stuffing-threads, pairs of binder warp-threads, and weft-threads, and a face of weft-threads united to the weft of the back by binder-threads, which alternately interlock with back weft-threads, as I will proceed now more particularly to set forth and claim.

In the accompanying drawings, in the several figures of which like parts are similarly designated, Figure 1 is a diagrammatic plan view of my fabric; Fig. 2, a longitudinal section, and Fig. 3 a transverse section.

The back has a stuffing composed of groups of four (more or less) strands or threads *a*, of jute or equivalent heavy and strong material, arranged parallel to the warp and laid parallel to one another, and extended from beam to beam, either independently of the harnesses or through harnesses of their own in the loom. Between the successive groups is a pair of binder warp-threads *b*, of cotton or other material, which threads are to be operated, as usual, by the usual harnesses of the loom; and co-operating with the binder warp-threads and on opposite sides of the stuffing are the weft-threads *c*, of cotton or linen. In order to make straight and strong selvages, there is the outside pair of binder warp-threads *b'*, of cotton or other material, and the straight longitudinal thread *d*, bound in by the weft *c*. The back thus constructed is hard, solid, and inelastic in all directions. The face is composed, by preference, of

woolen weft-threads *e*, shot in single or in pairs, to make a smooth surface, and bound in by worsted warp-threads *f*, arranged in pairs and harness-operated, and these weft-threads *e* are laid flat across the back, without loops, and beaten up closely. The warps *f* are alternately engaged with the cotton wefts, and are crossed between each two pairs of woolen wefts.

It will be observed that the woolen weft running at right angles to the stuffing cannot sink into it or between its constituent members, and hence a very hard and solid carpet is produced, which will not permit dust to sift through. The face, being hard, flat, and smooth, will not "sprout," as does tapestry or body-brussels—that is, the face-yarns will not catch and pull out and will not catch and hold dirt. It may be swept easily, and is susceptible of being easily and very perfectly printed. Made up in solid colors my carpet is particularly well adapted for halls and for filling under and around rugs.

The selvage being straight, lengths of my carpet may be sewed together with abutting edges, as in the case of tapestry, brussels, and the like. The selvage preferably contains also the two stuffing-threads *a'*, arranged one above the other.

What I claim is—

1. An improvement in carpet fabrics or other fabrics, consisting of a back composed of groups of four (more or less) stuffing-threads laid straight and parallel and running lengthwise of the warp, binder warp-threads on each side of the groups of stuffing-threads, and weft-threads interlocked with the warp-threads and binding in the groups of stuffing-threads, and a flat face composed of weft-threads crossing the stuffing-threads at right angles, and binder warp-threads interlocked with the weft-threads of the back and with the face weft-threads, substantially as described.

2. A carpet fabric or other fabric having a back of straight parallel stuffing-threads, binder warp-threads, and weft-threads, a face of straight flat weft-threads and binder warp-threads interlocked with the weft of the back, and selvages having part of the back binder-warps and a straight thread arranged outside

thereof and bound in by the back weft-threads, substantially as described.

3. A carpet fabric or other fabric having a back of inferior material, consisting of straight
5 longitudinal stuffing-threads of jute, arranged in groups of four threads each, cotton or linen binder - warps alternating with the groups of stuffing-threads, and a cotton or
10 weft-threads arranged in pairs crosswise of

the back and flat thereon, and binder-warps of worsted threads woven with the woolen face-weft and with the cotton or linen back-weft, substantially as described.

In testimony whereof I have hereunto set 15 my hand this 6th day of June, A. D. 1889.

GOLDSBOROUGH S. GRIFFITH, JR.

Witnesses:

WM. H. FINCKEL,

H. T. DAVIS.