

No. 683,574.

Patented Oct. 1, 1901.

J. J. PRIOR.
RUG, MAT, OR THE LIKE.
(Application filed June 8, 1901.)

(No Model.)

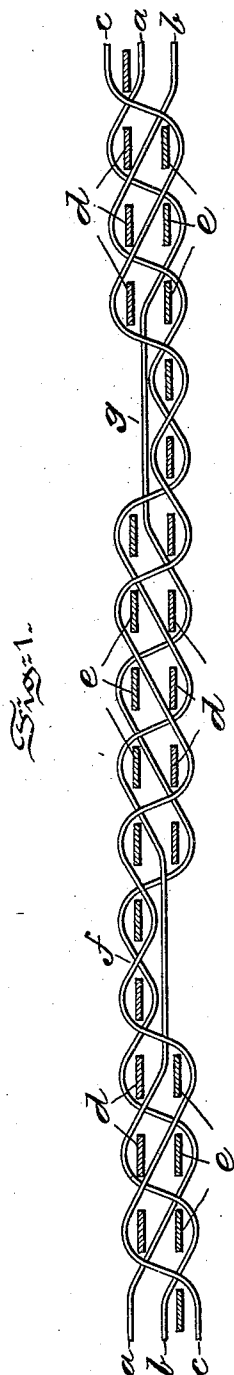


Fig. 1.

Fig. 3.

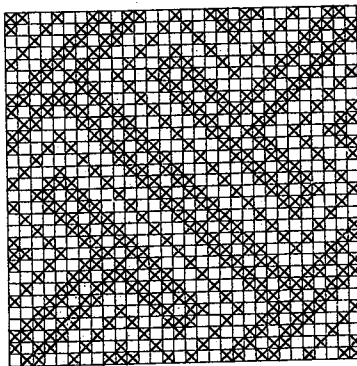





Chart for wefts and warps.

 black
 white
 black

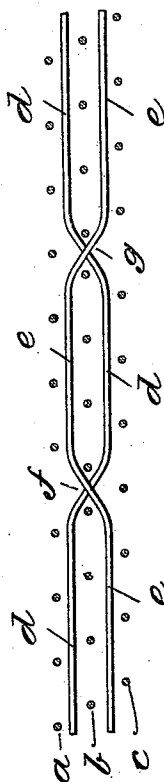


Fig. 2.

Witnesses:
Wilhelm Vogt
Thomas M. Smith.

In witness whereof
 John J. Prior,
 by J. Walter Hughes
 Attorney.

UNITED STATES PATENT OFFICE.

JOHN J. PRIOR, OF NICETOWN, PENNSYLVANIA.

RUG, MAT, OR THE LIKE.

SPECIFICATION forming part of Letters Patent No. 683,574, dated October 1, 1901.

Application filed June 8, 1901. Serial No. 63,709. (No model.)

To all whom it may concern:

Be it known that I, JOHN J. PRIOR, a citizen of the United States, residing at Nicetown, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Rugs, Mats, or the Like, of which the following is a specification.

My invention has relation to the fabrication of a cheap, durable, and artistic fabric suitable for floor-coverings, such as rugs and mats, and in such connection it relates to the structural arrangement of the warp-threads and of the wefts consisting of strips of rags or strips of ribbons and to manipulation of such wefts for forming the pattern in or ornamental faces of the fabricated article.

The principal objects of my invention are, first, to provide a rag or strip weft plane fabric for floor-coverings, such as rugs and mats, consisting of a series of warp-threads and rag or strip wefts, the latter forming the pattern in or ornamental faces of the fabric by change of position of the wefts to either face in the fabricated article, the warp-threads serving to separate the rag or strip wefts and also to bind the wefts of each face of the fabric, and, second, to provide a rag or strip two-plane weft fabric consisting of three warp-threads and rag or strip wefts to each set or weave, the latter adapted to provide the pattern in or ornamental faces of the fabricated article based upon twilled lines and the warp-threads separating the said wefts and also binding the respective wefts in separate sheds throughout into substantially a homogeneous fabric and the direction of the twill lines of the fabric conforming approximately to the outline of the pattern in or ornamental faces of the fabric, whereby both faces as to pattern are more sharply defined than such would be otherwise.

My invention, stated in general terms, consists of a rag or strip weft plane fabric when fabricated in substantially the manner hereinafter described and claimed.

The nature and characteristic features 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 diagrammatic longitudinal

sectional view through the fabric on a line with the warp-threads thereof and embodying features of my invention. Fig. 2 is a transverse sectional view through the fabric on a line with the rag or strip wefts of the fabric, and Fig. 3 is a top or plan view of a design well adapted for producing the style or kind of fabric embodying the features of my invention, in this design each square representing the intersection of a warp-thread with two rag or strip wefts, the square containing crosses representing points or portions in the fabricating of the article where one rag or strip weft passes over the warp-thread and appearing at the upper face of the fabric and where the other weft passes under the warp-thread and appearing at the under face of the fabric, the blank squares representing points or portions in the fabricating of the article where the positions of the rag or strip wefts are reversed.

Referring to the drawings, *a*, *b*, and *c* represent the warp-threads, and *d* and *e* the rag or strip wefts, of the fabric of each set or weave. These wefts may, however, be of any color. As illustrated, they are designated by the chart as white and black, and the warp-threads as black. In portions of the fabric in the weaving of the same and where the wefts change position in passing from one face of the fabric to the other but one weft appears in a set or weave bound either on the top or bottom by two of the three warp-threads; but in the beating up of the fabricated article this will not be noticeable, the portions referred to being indicated at *f* and *g* in Figs. 1 and 2 of the drawings.

In the fabricating of the article hereinbefore described as consisting of three warp-threads and two rag or strip wefts to each set or weave the warp-threads and wefts are preferably interwoven together to produce the required pattern in or ornamental faces of the fabric in right and left twill-lines and the designs or patterns being formed in series by the continuous twills and the direction of the twills conforming approximately to the outlines of the patterns in or ornamental faces of the fabric throughout the same.

Preferably in weaving the fabric the rags or strips are separated into two classes of material—that is, all the light rags or strips

of ribbon of one class are placed in one set and all the dark or somewhat similar color rags or strips in another set. A separate shuttle is employed for each set of weft-strips or rags. One pick is woven alternately from each class of the wefts. The warp-threads are drawn through heddles controlled by a jacquard-machine or other similar pattern-forming mechanism. The rags or ribbons may be torn or cut into strips of approximately one-quarter to two inches in width, more or less, according to requirement of the particular article to be fabricated.

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 two sets or planes of wefts formed of flat strips or ribbons and one set or plane of warp-threads weaving in series of three, said wefts serving to ornament both faces of the fabric by appearing at intervals respectively on either

face and the warp-threads serving in turn to separate the wefts and to bind both faces of the fabric.

2. A woven fabric consisting of two sets or planes of wefts, formed of flat strips or ribbons and one set or plane of warp-threads weaving in series of three, both sets of said wefts appearing at certain intervals to ornament both faces of the fabric and at other intervals appearing in single sets to ornament but one face of said fabric to produce a twill effect, and said warp-threads arranged to separate in turn the wefts and to bind both faces of the fabric.

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

JOHN J. PRIOR.

Witnesses:

J. WALTER DOUGLASS,
THOMAS M. SMITH.