

(Specimens.)

J. S. COOKE & J. W. BROOK.
INGRAIN CARPET FABRIC.

No. 497,708.

Patented May 16, 1893.

Fig. 1.

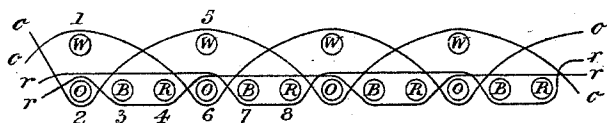


Fig. 2.

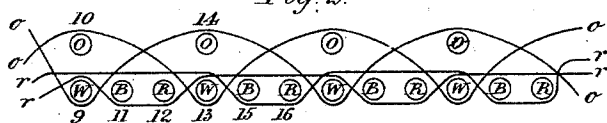


Fig. 3.

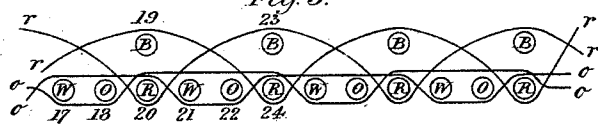


Fig. 4.

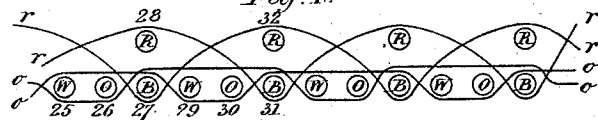


Fig. 5.

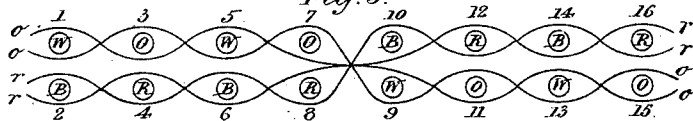
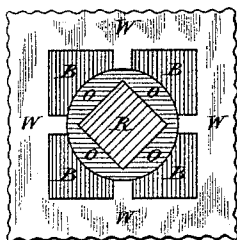


Fig. 6.



Witnesses.

W. F. Keene.
James McLean.

Inventors

James S. Cooke and John W. Brook,
by Ellis Spear Atty.

UNITED STATES PATENT OFFICE.

JAMES SAMUEL COOKE AND JOHN WILLIAM BROOK, OF LIVERSEDGE,
ENGLAND.

INGRAIN CARPET FABRIC.

SPECIFICATION forming part of Letters Patent No. 497,708, dated May 16, 1893.

Application filed May 1, 1890. Serial No. 350,156. (Specimens.) Patented in England February 18, 1890, No. 2,616, and in Canada June 9, 1890, No. 34,499.

To all whom it may concern:

Be it known that we, JAMES SAMUEL COOKE and JOHN WILLIAM BROOK, both subjects of Her Majesty the Queen of Great Britain, residing at Liversedge, in the county of York, England, have invented a certain new and useful Improvements in Ingrain Carpet Fabrics, of which the following is a specification.

The invention has been patented in England No. 2,616, dated February 18, 1890, and in Canada, No. 34,499, dated June 9, 1890.

Our invention relates to improvements in Scotch or ingrain carpet fabrics and consists in a two ply ingrain fabric having its figures formed in distinct and solid colors of weft the wefts thereof being interwoven with the usual two ply warp, and as herein fully described, as to obtain one solid fabric of carpet.

To clearly explain the nature of our invention reference is made to the accompanying drawings in which—

Figures 1, 2, 3 and 4 are sectional diagrams of ingrain carpet fabrics woven in accordance with our invention showing the disposition of the wefts therein and the manner in which the respective colors of weft are brought to the face of the fabric and interwoven to produce solid or pure color effects. Fig. 5, is a diagram showing the present method of weaving ingrain carpet fabrics. Fig. 6, is a sketch plan view showing the design of a carpet for the purpose of illustration.

Referring first to Fig. 1, the weft threads are supposed to be, white, olive, black and red, as indicated by the letters W. O. B. R. and the warp threads olive and red as indicated by the letters *o*, *r*. This figure shows the manner in which the warp and weft are interlocked in the weaving, so as to form one solid fabric, which in this case will be all white on the surface as shown. Fig. 2 shows the fabric when the olive weft threads have been brought up so as to show an all olive surface. Fig. 3 shows all black, and Fig. 4 all red.

According to our invention where the design of this carpet has been completed in say four colors, such as the white, olive, black

and red, before referred to, and indicated by the letters W. O. B. R. in the design or pattern of a carpet shown in Fig. 6, there will be required four stamped cards for each cord or line in the design, which cards must not be stamped in the ordinary manner but as follows:—first card stamp red to produce red; second, card stamp olive, black and red to produce white; third, card stamp white, black and red to produce olive; fourth, card stamp black to produce black.

The above cards are stamped to work with planes or journals and a double lift jacquard and in doing so the same planes and board are made to lift twice together as shown in the table below, instead of each plane and board lifting alternately as in the ordinary way.

Warp color.	Planes rise.	Weft color.	Figure board.	Ground board.
Olive	1	White	at rest	lifts
Olive	1	Olive	at rest	lifts
Red	3	Black	lifts	at rest
Red	3	Red	lifts	at rest
Olive	2	White	at rest	lifts
Olive	2	Olive	at rest	lifts
Red	4	Black	lifts	at rest
Red	4	Red	lifts	at rest

Similar results may be got by picking one ground and then one figure alternately if the cards are placed accordingly.

It will be seen from the drawings that the fabric comprises the "mated" figuring wefts W, O, B, R, and two sets of warp threads *o*, *o*, *r*, *r*, the wefts of any one color as W being raised to cover any given surface while the remaining wefts are woven with one set of warps *r*, *r*, to form the body of the fabric each warp of the remaining set of warp threads binding every alternate raised weft thread and passing into the body of the fabric to be bound by the "mate" weft below the raised weft.

What we claim, and desire to secure by Letters Patent, is—

An ingrain carpet comprising the "mated" figuring wefts W. O; B. R, and two sets of warp threads *o o*, *r r*, the weft of any one color as W being raised to cover any given surface while the remaining wefts are woven with one set of warps *r r*, to form the body of the fabric, each warp of the remaining set of warp threads binding every alternate raised weft thread and passing into the body of the fabric to be bound by the "mate" weft

below the raised weft, substantially as described.

In testimony whereof we have hereunto set our hands in the presence of two subscribing witnesses.

JAMES SAMUEL COOKE.
JOHN WILLIAM BROOK.

Witnesses:

J. BRIERLEY HOWARD,
J. STOPHERD.