

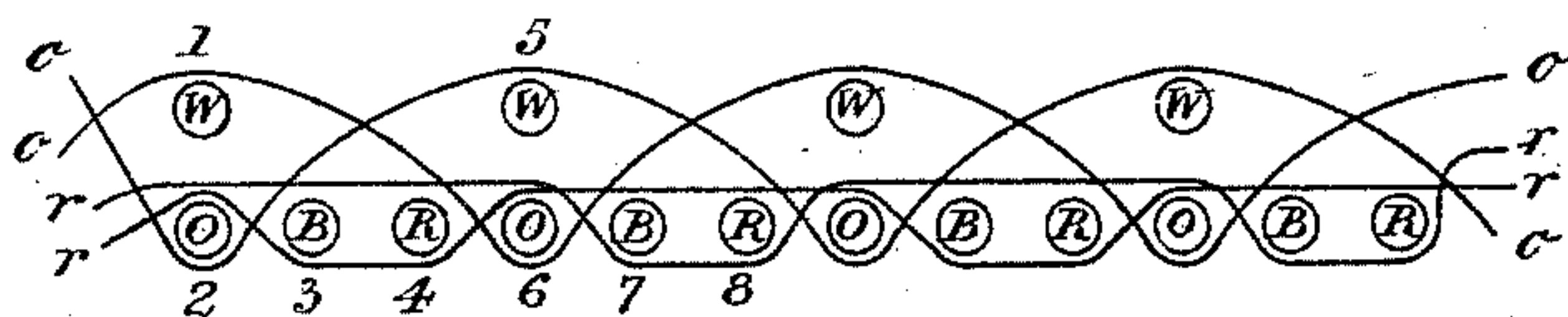
(Specimens.)

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

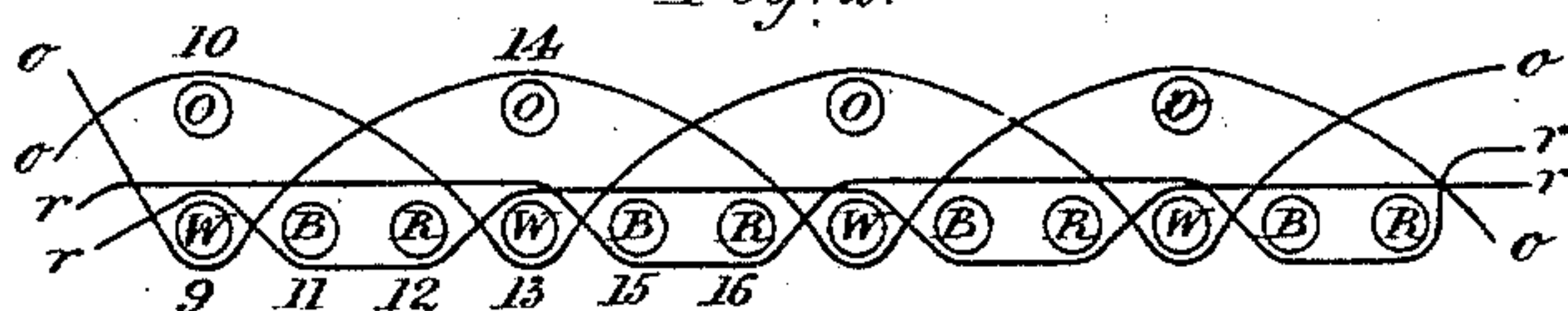
No. 497,708.

Patented May 16, 1893.

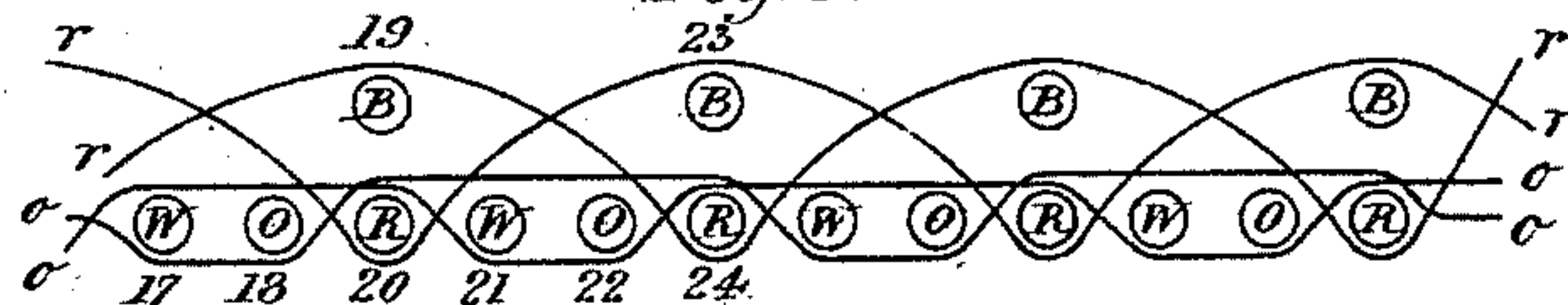
*Fig. 1.*



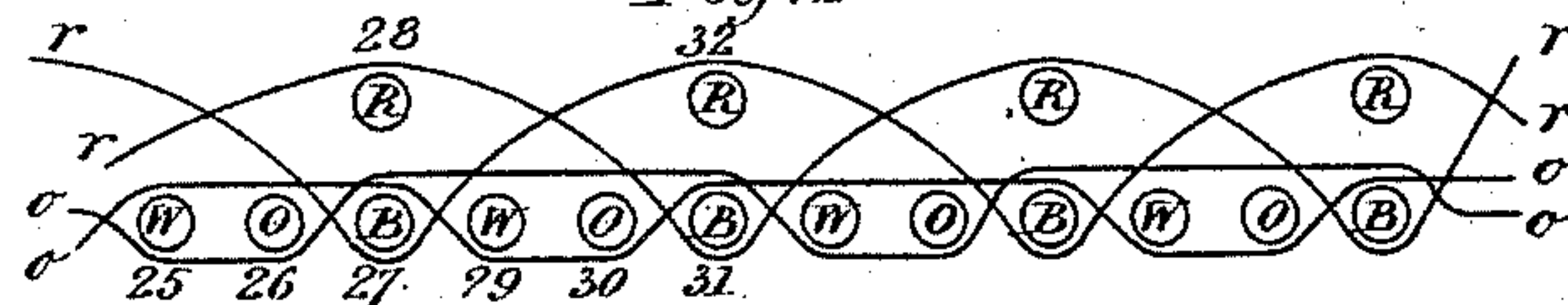
*Fig. 2.*



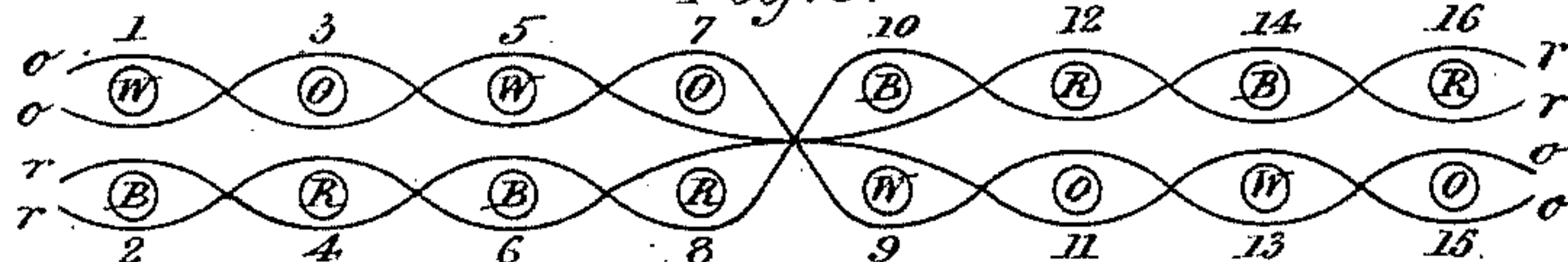
*Fig. 3.*



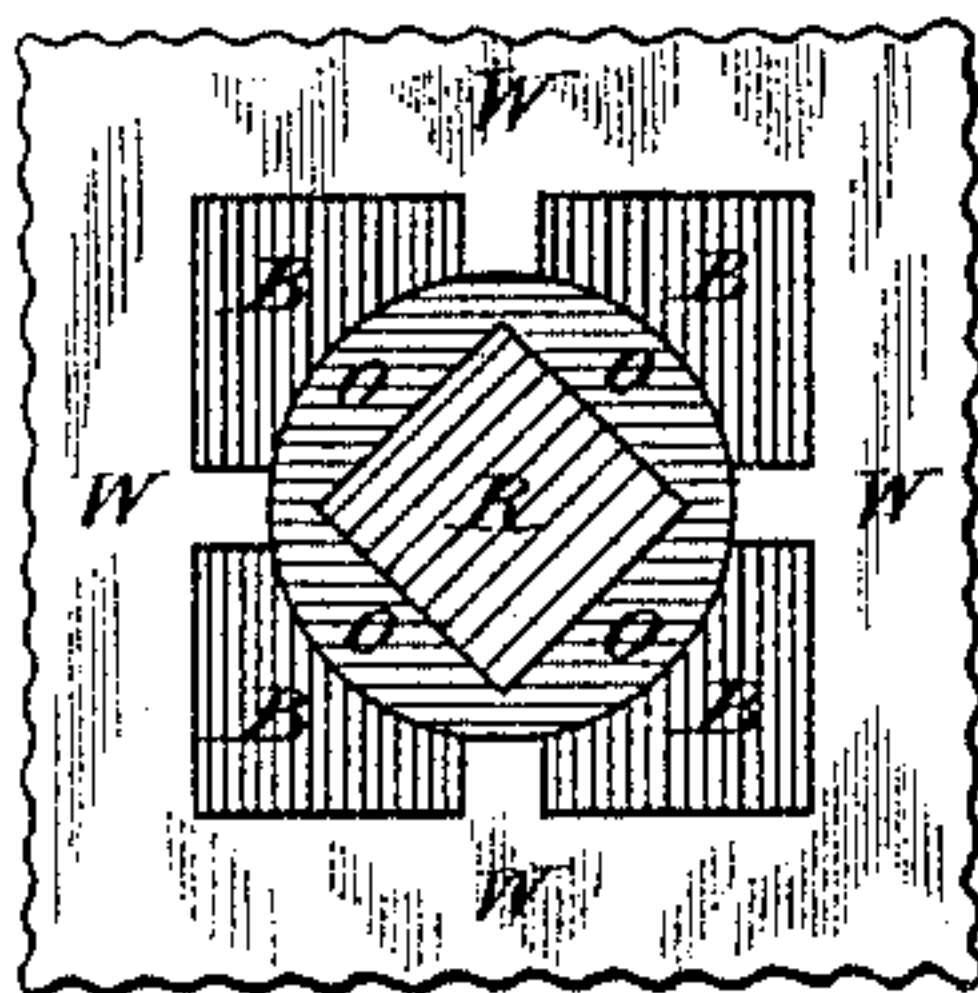
*Fig. 4.*



*Fig. 5.*



*Fig. 6.*



*Witnesses.*

W. F. Keene.  
James McPhear.

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, re-  
siding at Liversedge, in the county of York,  
England, have invented a certain new and use-  
ful Improvements in Ingrain Carpet Fabrics,  
of which the following is a specification.

The invention has been patented in Eng-  
land 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 de-  
scribed, as to obtain one solid fabric of carpet.

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

Figures 1, 2, 3 and 4 are sectional diagrams  
of ingrain carpet fabrics woven in accord-  
ance with our invention showing the dispo-  
sition of the wefts therein and the manner  
in which the respective colors of weft are  
brought to the face of the fabric and inter-  
woven 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 de-  
sign of a carpet for the purpose of illustra-  
tion.

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 indi-  
cated 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 de-  
sign 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 pat-  
tern 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 fol-  
lows:—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 Let-  
ters 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  
5 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  
10 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.