

J. DORNAN.

Carpets.

No. 142,681.

Patented September 9, 1873.

Fig. 1.

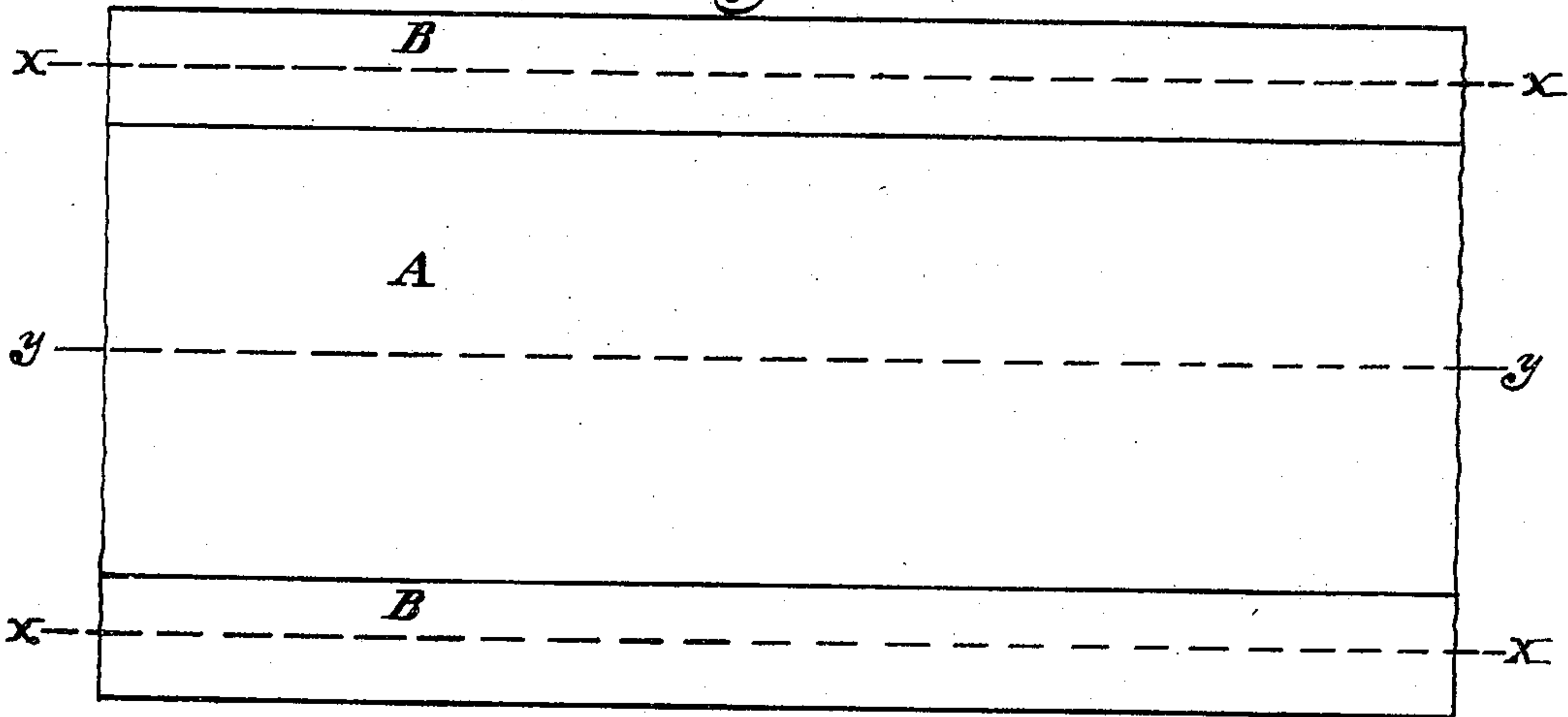


Fig. 2.

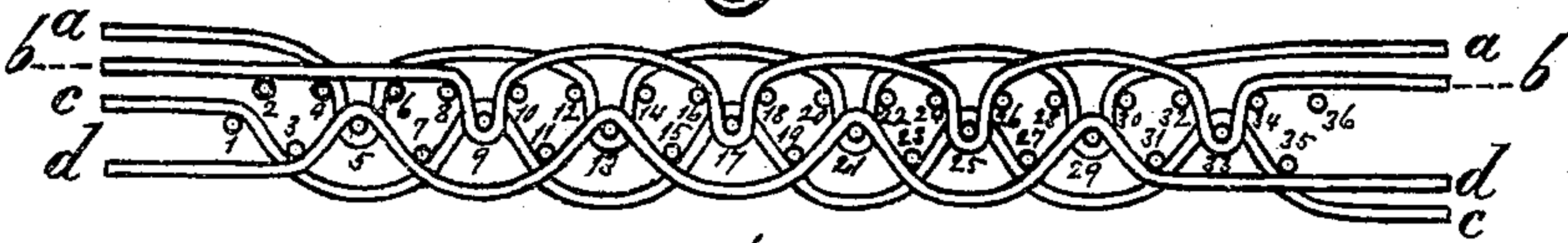


Fig. 3.

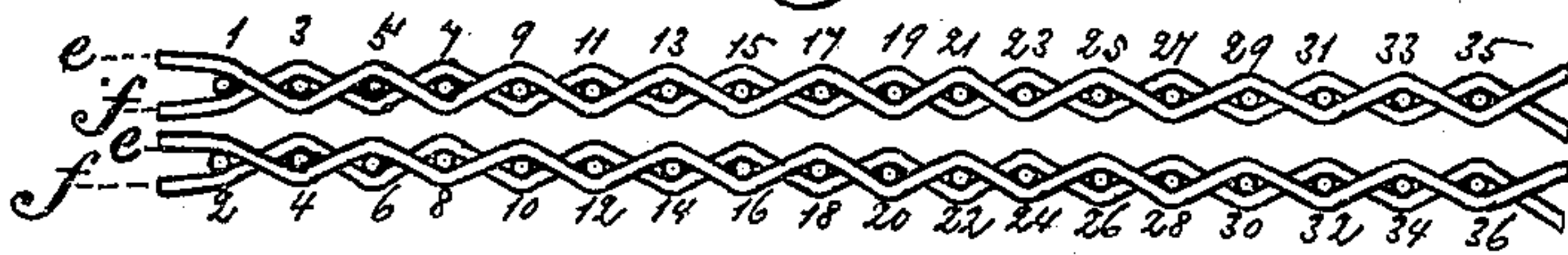
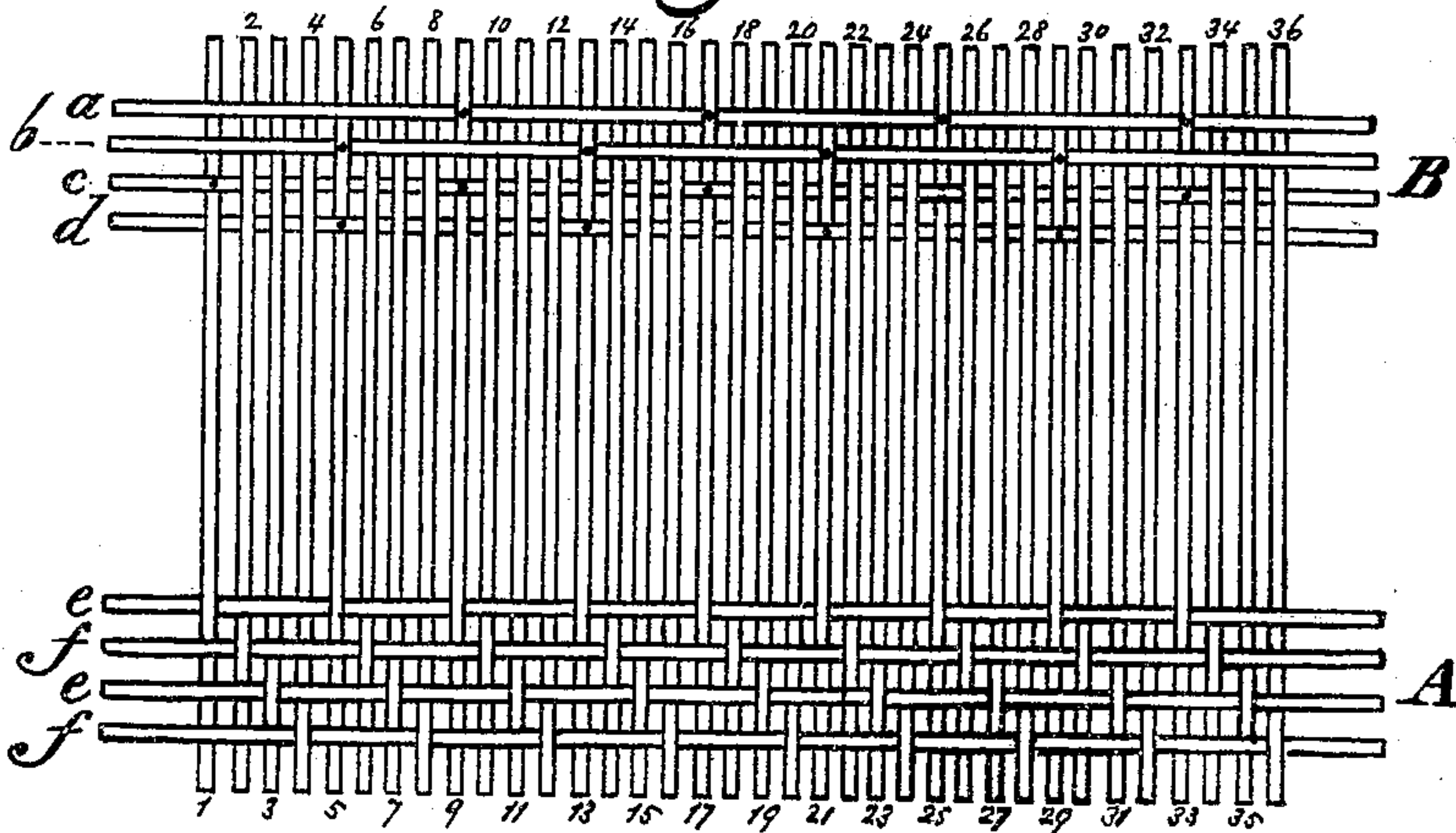


Fig. 4.



Witnesses:

Millard F. Walton,

Robert H. Hox.

Inventor:

John Dornan,

by John A. Diersheim & Co.
attys.

UNITED STATES PATENT OFFICE.

JOHN DORNAN, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN CARPETS.

Specification forming part of Letters Patent No. **142,681**, dated September 9, 1873; application filed July 17, 1873.

To all whom it may concern:

Be it known that I, JOHN DORNAN, of the city and county of Philadelphia and State of Pennsylvania, have invented a new and useful Improvement in Carpets; and I do hereby declare the following to be a clear and exact description of the nature thereof, sufficient to enable others skilled in the art to which my invention appertains to fully understand, make, and use the same, reference being had to the accompanying drawings making part of this specification, in which—

Figure 1 is a face view of a piece of carpet embodying my invention. Fig. 2 is a longitudinal section through the damask border in line *x x*, Fig. 2, the threads being spread to show the texture. Fig. 3 is a longitudinal section through the ingrain center at *y y*, the threads being spread. Fig. 4 is a top view, the threads being spread.

Similar letters of reference indicate corresponding parts in the several figures.

This invention is a carpet, consisting of an ingrain center and damask border.

In manufacturing a carpet of this order there will be two or more threads of chain to the lift in the border. Two shots of the ingrain figure and one shot of the ingrain ground—making three shots of the ingrain—form the heavy shot in the damask border, and the second shot of the ground forms the fine shot in the damask border. Every fourth shot of the ingrain forms the binding-shot in the damask.

On the border the figure is formed exclusively by the chain. The fine thread is employed exclusively for binding in the border and the figure or ground in the ingrain center, as the case may be.

I employ a single jacquard and two cards that produce the figure and ground of the ingrain. The first card will produce the figure and the other card the ground.

In the process of weaving I use three cards, two of the figure and one of the ground, or vice versa, lifting the same shed of the chain three times in succession, producing the heavy shot of the damask, and the fourth card, or second of the ground, forming the fine or binding shot in the damask. On each lift of the damask the same shed opens seven times, and the eighth forms a binding; but in the process of weaving the fabric every fourth shot in the ingrain is the binder.

Referring to the drawings, A represents the ingrain center, and B B the damask border. *a b c d* represent the chain of the border, and *e f* the chain of the ingrain center. The numbers 1, 2, 3, 4, &c., represent the filling, of which numbers 5, 9, 13, 17, &c., represent the binding-shot of the damask.

It is well known that a greater variety of colors can be brought out in an ingrain than in a damask; and, while the damask is desirable and sought for as a stair-carpet on account of its peculiar appearance, its wear is not equal to an ingrain; and yet stair-carpet composed entirely of ingrain does not answer the purpose. Therefore I weave the center, or part most generally subjected to the tread, of an ingrain, and simultaneously weave therewith a damask border, and thus combine in one carpet the important characteristics of both ingrain and damask.

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

A carpet constructed substantially as described, and having an ingrain center and a damask border, woven together at one operation, and forming a new fabric, as set forth.

JOHN DORNAN.

Witnesses:

JOHN A. WIEDERSHEIM,
R. J. STINSON.