

(No Model.)

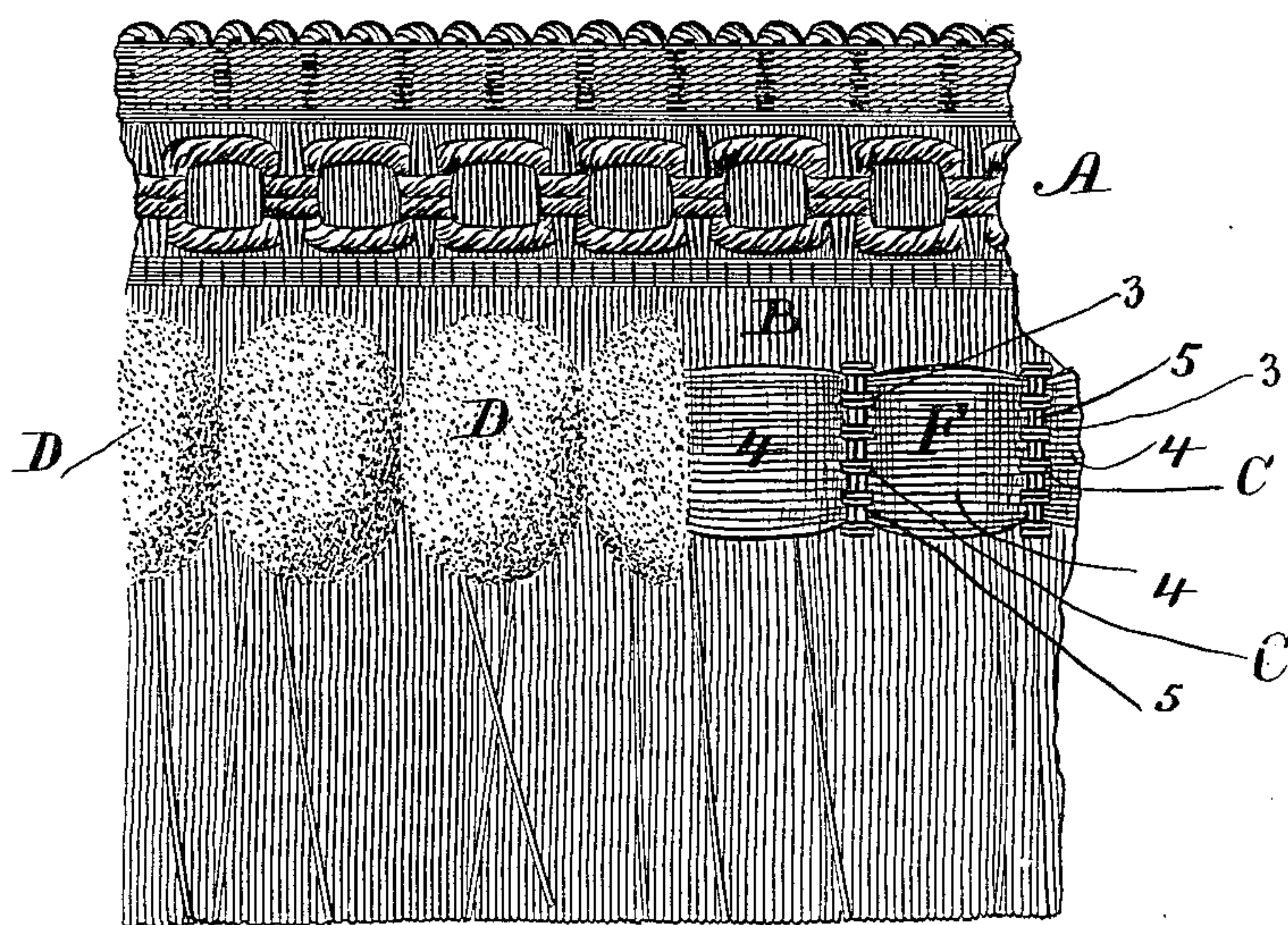
C. WEINBERG.

FRINGE.

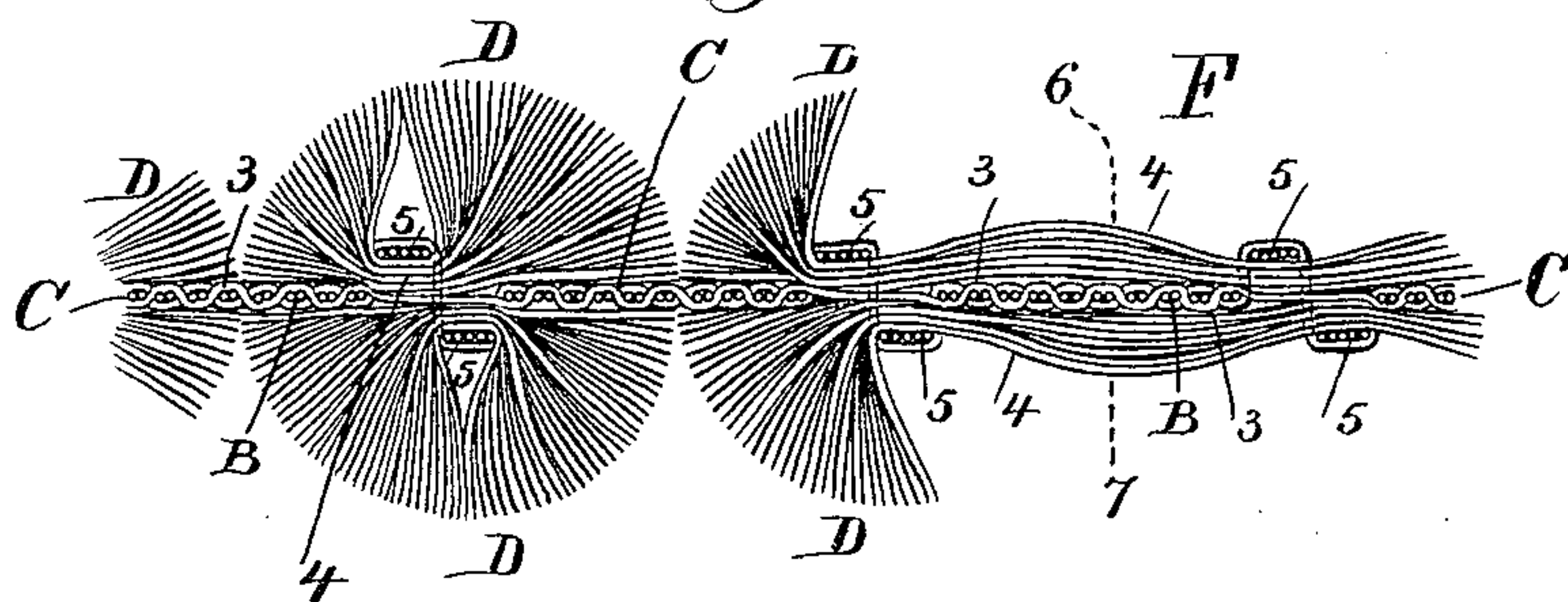
No. 362,689.

Patented May 10, 1887.

*Fig. 1.*



*Fig. 2.*



Witnesses

Chas H. Smith  
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att'y



# UNITED STATES PATENT OFFICE.

CHARLES WEINBERG, OF NEW YORK, N. Y.

## FRINGE.

SPECIFICATION forming part of Letters Patent No. 362,689, dated May 10, 1887.

Application filed February 7, 1887. Serial No. 226,765. (No specimens.)

*To all whom it may concern:*

Be it known that I, CHARLES WEINBERG, of the city and State of New York, have invented an Improvement in the Manufacture of Fringe, of which the following is a specification.

In the manufacture of fringe it has heretofore been usual to weave a suitable heading of a more or less ornamental character with the west-cords hanging down in the form of fringe, and in some instances these cords have been bunched and held together by pieces of chenille or "slung-ruffs" (the term used in the trade) wrapped around each bunch near the top, and secured to such fringe-cords so as to form ornamental balls adjacent to the heading. This, however, requires considerable hand-work, and the chenille or ruff is liable to become untwisted and to pull off the cords of the fringe.

My improvement consists in forming the ball ornaments one-half at each side of a woven band uniting the cords of the fringe together, and forming the base or body for the half-ball ornaments that are made to imitate the chenille balls. By my improvements the cost of manufacture is lessened and the ball ornaments are not liable to be injured or pulled off.

In the drawings, Figure 1 shows the fringe with some of the ball ornaments in an uncut condition; and Fig. 2 is a horizontal section in larger size, showing the manner in which the ball ornaments are woven.

The head A of the fringe is to be of any desired character. I have shown it as woven to correspond to the design in my Patent No. 16,902, granted September 14, 1886.

The west-cords B form the fringe portion. These, however, are connected by a woven band or strip at C, the longitudinal cords or warps 3 3 of which are interwoven with the fringe cords or wefts in the usual manner, there being any desired number of the fringe west-cords included in each interlock of the crossing warp-cords.

The ornamental half-balls D are made at op-

posite sides of the band C, and they are composed of longitudinal warps 4 4, usually woolen and of large size. They run parallel with the cords 3, and usually will be of two or more colors, so as to give to the balls a mottled or striped appearance. These warps 4 are supplied from independent spools or beams, and they are woven so as to lie loosely upon the opposite sides of the band C, and these warps pass through the woven band, as at 5 5, and thereby are interwoven at intervals with the fringe west-cords and with the longitudinal band cords or warps 3, and the lines 5 of these loops are transverse to the band C and at suitable distances—say three-quarters of an inch—apart along the band. The appearance of the longitudinal warps as they are woven is represented at F, Figs. 1 and 2.

After the weaving operation is finished the operative, by a pair of scissors or other suitable cutter, separates the warps 4 transversely of the band at the lines 6 6 and 7 7, so that the loose ends of the fibers in such warps 4 4 project in groups and form at each side of the band C half balls that are securely woven in with the fabric of the bands, and hence are not liable to become loose or disconnected, and the fringe apron is retained in its place by the band, and is not so liable to become misplaced or injured as in the ordinary ball fringe.

I claim as my invention—

The fringe having a woven head, A, west-cords B, projecting to form the fringe, and a longitudinal band, C, composed of the warps 3 3, that cross the fringe-wefts and tie the same together, and the warps 4, interlocked with the west-cords at intervals transversely to the band and held by the interlocking of the warps 3, and cut so as to form half-balls upon the surface of the band in imitation of chenille balls, substantially as set forth.

Signed by me this 1st day of February, 1887.

CHARLES WEINBERG.

Witnesses:

GEO. T. PINCKNEY,

WILLIAM G. MOTT.