Jan. 18, 1944. J. M. PETTOROSSI 2,339,747

TUFTED CORD

Filed Feb. 21, 1942

Fig. 1.

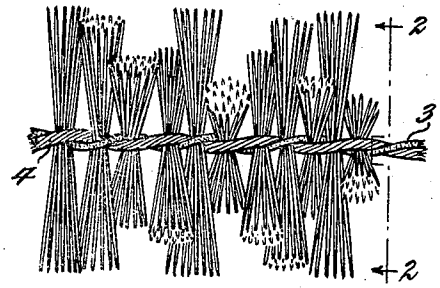
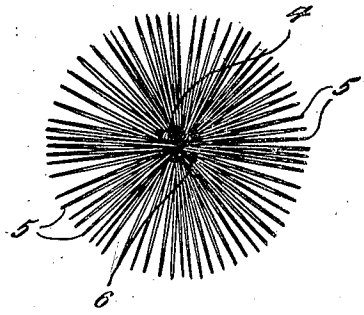


Fig. 2.



INVENTOR.
Joseph M. Pettorossi
BY
Lackenbach & Hirschman
ATTORNEYS

Patented Jan. 18, 1944

2,339,747

UNITED STATES PATENT OFFICE

2,339,747

TUFTED CORD

Joseph M. Pettorossi, New York, N. Y., assignor to Paper Novelty Mfg. Co., Brooklyn, N. Y., a corporation of New York

Application February 21, 1942, Serial No. 431,780

2 Claims. (Cl. 57—143)

The invention relates to a new article of manufacture constituting a tufted cord. Such a tufted cord is an extended, rope-like article of indefinite length, comprising a core-strand formed of longitudinal threads twisted about the axis of the structure with tuft-forming elements intertwining with the core in such a manner as to extend substantially radially from the core. The article is useful in the formation of ornamental garlands, ropes, festoons, wreaths, etc.

An object of the invention is to provide such a tufted cord structure which is not made as articles of this general character have been conventionally made, with a core constituted of a strand of fine wire, usually copper, with its attendant tendency to corrode and constituting an electrical conductor, an element of hazard particularly in the event of a short-circuit in a system of Christmas tree illumination, in which environment a garland, festoon or wreath of this character is generally used for decorative purposes. In contradistinction, my novel tufted cord is made with a core of flexible fabric material, such as cotton or other thread. The tuft forming elements are likewise made of a non-metallic material. In the particular embodiment of my invention hereinafter described, such elements are made of "fiberglass" or other thread of glass filaments formed into strands and utilized to make the tufts substantially as chenille.

Thus, the entire structure of my novel tufted cord eliminates the use of wire or metallic strands and yet is capable of being manufactured at extremely low cost, while serving satisfactorily essential self-sustaining requirements, so that the glass threads or filaments are maintained in their tuft-like radially extended position, and the dangers from fire due to electrical conductance are eliminated.

A further object of my invention is to provide a tufted cord structure which is loaded with paste by which the twist of the core and the erect character of the tuft-forming elements are rendered self-sustaining when the cord has been dried.

An apparatus and method for producing my novel tufted cord structure is described and illustrated in my copending application, Serial No. 429,910, filed February 7, 1942. Reference is made to said copending application for a detailed description of such method and apparatus.

A particular embodiment of my present invention is illustrated in the accompanying drawing, in which Fig. 1 is a fragmentary detail view of a length or portion of tufted cord constructed in accordance with my invention, and Fig. 2 is a section on the line 2—2 of Fig. 1.

Referring now to the drawing, the reference characters 3 and 4 designate two core-strands constituted of longitudinal threads twisted about the axis of the structure. The core-strand 3 is preferably of somewhat lesser diameter than the core-strand 4. Each component, or core-strand is formed of several threads, for instance, four. A multiplicity of substantially radial tuft-forming elements 5 of "fiberglass" or similar glass filamented thread are intertwined with the core-strand threads 3 and 4, the tuft-forming elements being loaded with paste 6.

A characteristic feature of my novel tufted cord is the permanent intertwinement of the tuft-forming elements with the core-strands.

I claim:

1. As a new article of manufacture, a tufted cord comprising a core-strand composed of non-metallic longitudinal threads twisted about the axis of the structure, and a multiplicity of substantially radial tuft-forming elements of filamented glass fibers intertwined with said core-strand threads, said combined core-strand threads and tuft-forming elements being loaded with paste and thereby constituting, when the paste is set, a flexible, self-sustaining tufted cord.

2. As a new article of manufacture, a tufted cord comprising a pair of core-strands one of said core-strands being of substantially greater diameter than the other, each composed of a plurality of non-metallic longitudinal threads, the core-strands being twisted about the axis of the structure, and a multiplicity of substantially radial tuft-forming elements of glass fibers intertwined with said core-strand threads, said combined core-strand threads and tuft-forming elements being loaded with paste and thereby constituting, when the paste is set, a flexible, self-sustaining tufted cord.

JOSEPH M. PETTOROSSI.