

B. H. GLEDHILL.
PILE OR PLUSH FABRIC.
APPLICATION FILED NOV. 2, 1905.

912,666.

Patented Feb. 16, 1909.

Fig. 1.

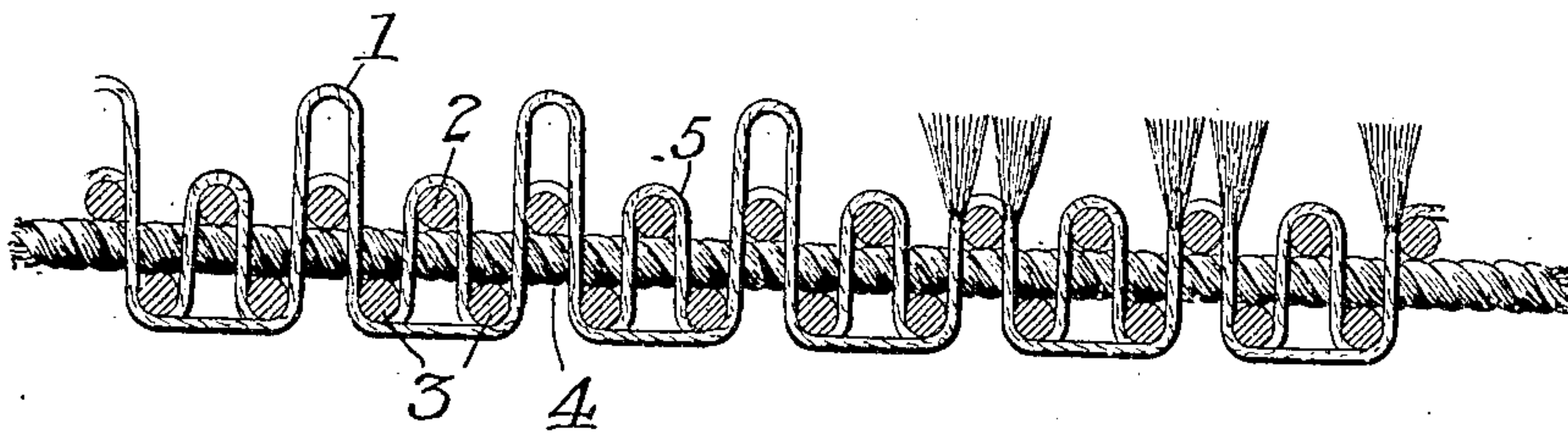
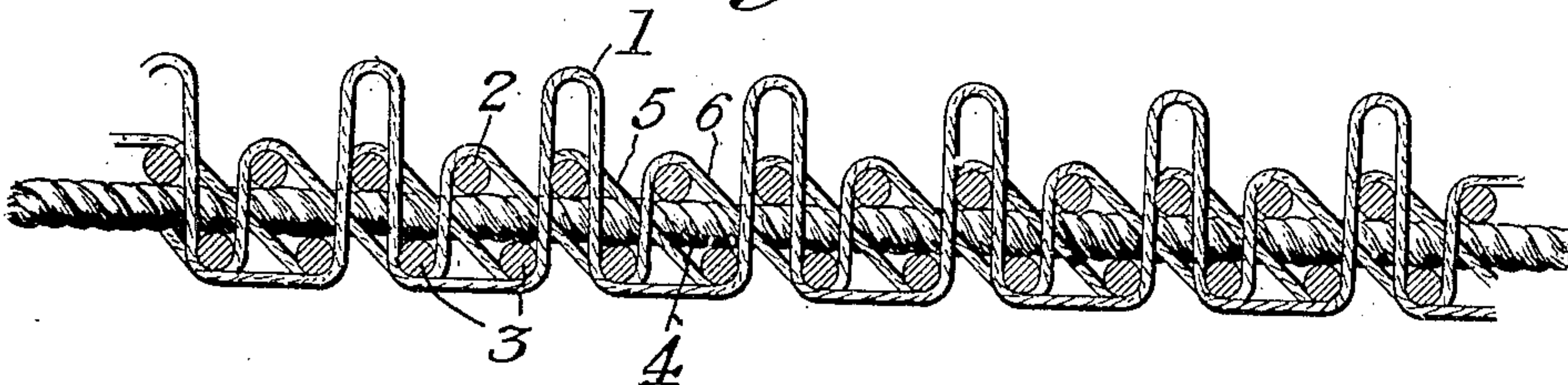


Fig. 2.



Witnesses.

Lillie M. Perry.
Belle J. Trinkley.

Inventor

Benjamin H. Gledhill
by M. H. Finckel
Atty.

UNITED STATES PATENT OFFICE.

BENJAMIN H. GLEDHILL, OF PHILADELPHIA, PENNSYLVANIA.

PILE OR PLUSH FABRIC.

No. 912,666.

Specification of Letters Patent.

Patented Feb. 16, 1909.

Application filed November 2, 1905. Serial No. 285,636.

To all whom it may concern:

Be it known that I, BENJAMIN H. GLEDHILL, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a certain new and useful Improvement in Pile or Plush Fabrics, of which the following is a full, clear, and exact description.

10 This invention relates to woven pile or plush fabrics, such as carpets and the like, used for furnishing, and the object of the invention is to simplify and economize in the weaving of such fabrics.

15 Various combinations of colored, uncolored or varicolored pile warp threads, stuffer warp threads, weft threads and binding warp threads may be used in carrying out the invention, but in every instance the
20 pile warp threads pass from the pile face through the fabric and are bound around the weft threads on the back of the fabric, thus forming a flat back surface similar in material and design to the pile face, but, of
25 course, without pile.

Broadly stated the invention consists of a pile or plush fabric, composed of pile or plush warp threads, face weft threads and back weft threads separated by stuffer warp
30 threads, and binding warp threads, the pile or plush warp threads passing through from face to back and interlocking with the face and back weft threads, all as I will proceed now more particularly to set forth and
35 finally claim.

In the accompanying drawings illustrating the invention, in the several figures of which like parts are similarly designated, Figure 1 is a conventional longitudinal section of a
40 fabric, wherein one row of pile warp tufts engage four picks of weft. Fig. 2 is a similar view, wherein a fabric like that of Fig. 1 has two sets of binding warp threads instead of one.

45 The pile or plush warp threads are designated 1, the face weft threads 2, the back weft threads 3, the stuffer warp threads 4, and the binding warp threads 5 and 6. The pile or plush warp threads may be colored,

uncolored or varicolored or combination of 50 these.

In the fabric of Fig. 1, the pile or plush warp threads passing through the face and back, are bound around alternate shots or
55 picks of weft threads on the face and two on the back, with the stuffer warp threads between, and the binding warp threads engaged by every shot or pick. In the fabric of Fig. 2, the pile or plush warp threads are arranged
60 as in Fig. 1, but two sets of binding warp threads 5 and 6 are used, and these engage alternate weft threads on face and back.

By my invention the pile or plush warp threads are passed through the footing and around the weft threads to the face again, 65 thus forming a flat surface on the back of the fabric similar in material and design to the face of the fabric, but without pile.

By this invention may be produced a fabric similar in appearance to oriental rugs 70 and carpets, and in which the pile tufts are evenly distributed and securely bound in the fabric, and the flat back has the same design and colors as the pile face.

The pile tufts may be left uncut, or they 75 may be cut.

What I claim is:—

A woven pile or plush fabric, composed of colored, uncolored, or varicolored pile or plush warp threads, face and back weft 80 threads, stuffer warp threads interposed between the weft threads, and binding warp threads in one set binding all the weft threads, there being one row of pile tufts to
85 every four shots or picks of weft threads equally distributed on face and back, the pile warp threads passing from the pile face through the fabric and bound around the weft threads on the back, thereby forming a
90 flat surface similar in material and design to the pile face but without pile.

In testimony whereof I have hereunto set my hand this 30 day of October A. D. 1905.

BENJAMIN H. GLEDHILL.

Witnesses: .

F. J. KING,

T. W. GILBERT.