

S. B. FLEISHER.
Device for Holding Coils of Braid and Similar
Articles.

No. 205,258.

Patented June 25, 1878.

Fig. 1.

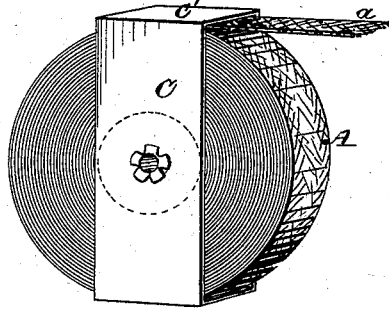


Fig. 2.

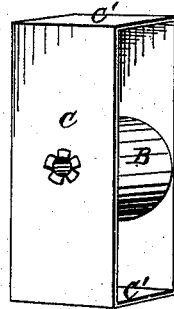


Fig. 3.

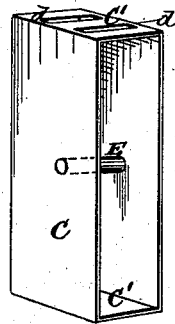
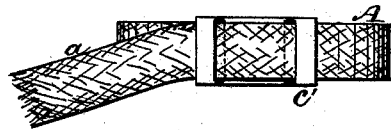


Fig. 4.



Witnesses:

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Fig. 5.

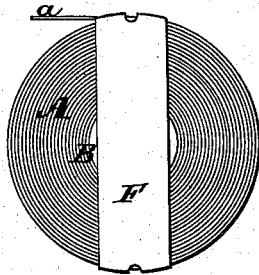


Fig. 6.

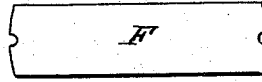


Fig. 7.



Fig. 8.

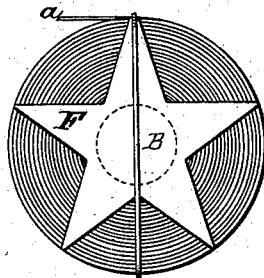


Fig. 9.

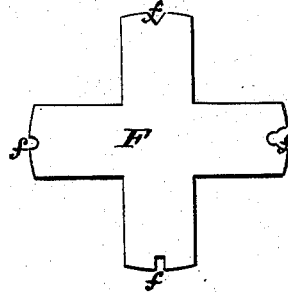


Fig. 10.

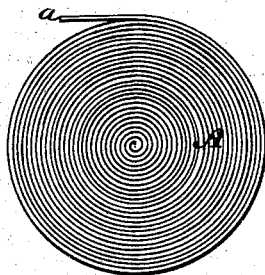
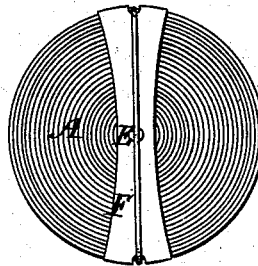


Fig. 11.



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UNITED STATES PATENT OFFICE.

SIMON B. FLEISHER, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN DEVICES FOR HOLDING COILS OF BRAID AND SIMILAR ARTICLES.

Specification forming part of Letters Patent No. **205,258**, dated June 25, 1878; application filed May 31, 1878.

To all whom it may concern:

Be it known that I, SIMON B. FLEISHER, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a new and useful Improvement in Packing and Putting Up Braid for the market, which improvement is fully set forth in the following specification and accompanying drawing, in which—

Figure 1 is a perspective view of my improved device, showing the manner of unwinding the braid. Fig. 2 is a perspective view of the frame and bobbin before any braid is introduced for winding. Fig. 3 is a view of the same, showing a pivot-pin in lieu of the bobbin, and having two elongated slots on the top part. Fig. 4 is a detail of top piece, as on Fig. 3, showing the manner of drawing the braid through the slots. Fig. 5 is a side view of a roll of braid having side supporting-strip. Fig. 6 is a view of a side supporting-strip detached. Fig. 7 is a view of band. Fig. 8 is a view of Fig. 5, showing a side supporting-strip of modified form. Fig. 9 is a modification of Fig. 6. Fig. 10 is a side view of a coil of braid rolled up on itself without any central core or bobbin. Fig. 11 is the same as Fig. 10, with the addition of side supporting-strip and a central pivot-pin.

Similar letters of reference designate the several parts.

The object of my invention is to furnish a convenient device, as hereinafter described, for putting up and fastening braid and similar articles, so that when exposed for sale or handled for use it will not unwind by itself or be liable to be displaced laterally.

The braid is wound round a central bobbin, B, forming a continuous coil, A, one end commencing at the bobbin B, the other end, *a*, terminating at the periphery; or the central spool B may be dispensed with in any modification and the braid be wound around itself, as shown in Figs. 10 and 11. Figs. 1, 2, 3, and 4 show the manner in which I preferably apply and operate my device.

The bobbin B or pin E is placed within a frame consisting of two side and two end pieces, C C, C' C'. The braid is then wound round the bobbin B or pin E until it is all

coiled up, and the other end passed under the end C' of the frame, as shown in Fig. 1.

For some purposes, especially when the braid is fine or of smooth exterior finish, to prevent its slipping back, I pierce the upper end C' of the frame with two elongated quadrilateral slots, *d d*, as shown in Fig. 3. The terminal end of the braid in this case is passed upward through one slot and downward through the other, the intervening space between the two slots forming a retaining-loop. The braid, whether passed completely under the top piece C' of the frame, or whether interlaced through the slots *d d*, could be fed out to any required length and then re-coiled in a smooth and uniform manner by the simple rotation of the frame on its axis, the top piece C', with or without the slots *d d*, guiding the edges of the braid to the proper plane of the flat sides of the coil. It is obvious, also, that any desired length can be cut off from the end *a* without risk of displacing the remainder of the coil.

It is also obvious that the frame C can be first made without any bobbin B or pin E, and the braid be coiled around upon itself, as shown in Fig. 10, then inserted in the interior of the frame C, and then be transfixed with a pivot-pin, E.

When the bobbin is used in connection with the frame C, I connect the sides to the bobbin centrally in such a manner that the whole coil will revolve on its axis.

I show but one form of connection—viz., boring the bobbin through its center and then connecting the sides of the frame thereto with an ordinary eyelet, but any equivalent well-known mechanical device will answer the purpose as well.

Another part of my invention relates to placing against the flat sides of the coil A supporting-strips F, having at either end small notches *f*. These notches may be semi-circular, triangular, straight, or of any desired configuration.

I illustrate four modified varieties on Fig. 9. The side strips are made of pasteboard or any material having required stiffness, and are fastened to the bobbin B with adhesive material, or, when the bobbin is dispensed with, are connected together with a stud-headed

pin, Fig. 11, E. After the braid is wound into a coil, A, and one of the supporting-strips F is placed on either side, a band, preferably elastic, is passed over the coil, outside of the strips F, and is kept in position by being dropped into the notches *f*. The terminal point *a* of the braid is thus confined and kept flat against the periphery of the coil, keeping it from unwinding, and the band, which is passed over the coil outside of the side supporting-strips F, prevents lateral displacement.

I do not desire to limit myself to a straight strip with parallel side edges, as shown in Figs. 5 and 6, as for some purposes I make said strip with radial or diverging arms. Figs. 8 and 9 show some forms of modification illustrating side supporting-strips of this character, and it is obvious that they can be made of any configuration as taste or convenience may dictate.

As before recited, the braid, instead of being wound around a central bobbin, may be wound around itself, as shown on Fig. 10, forming one continuous braid-coil, and then sup-

porting-strips can be placed on either side, and be kept in position by means of a central pin, E, being driven through and through, the pin being fastened with stud-heads, as shown on Figs. 3 and 11.

What I claim is—

1. The frame for packing up braid-coils, having sides C C, which pass across the diameter of the coil, and being connected together at the periphery, with end pieces C' C', with or without slots *d d*, in combination with the bobbin or pin, all adapted to hold the braid in place, substantially as described.

2. A device for putting up flat coils of braid, consisting of supporting side strips F, with or without diverging radial arms, having notches *f*, in combination with an exterior surrounding band and central bobbin or pin, all adapted to hold the braid in place, substantially as described.

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Witnesses:

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