March 11, 1958 E. HAGENBUCH 2,826,225

DECORATIVE RIBBONS

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Fig. 1

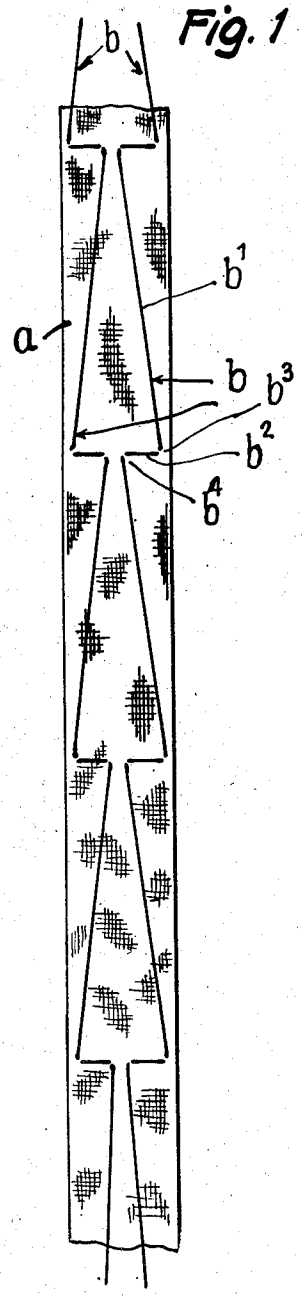


Fig. 2

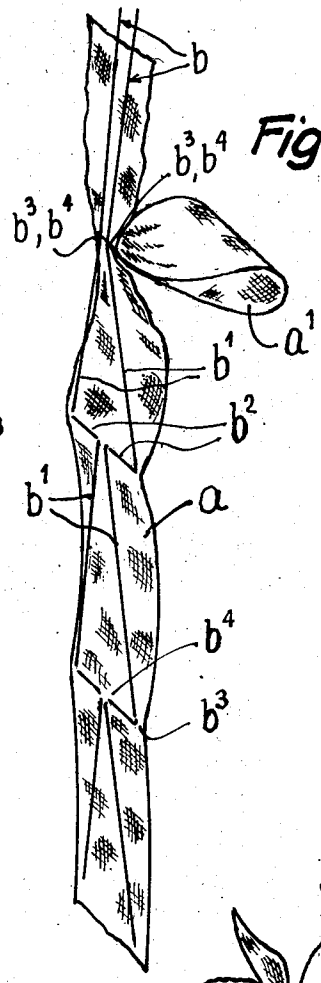
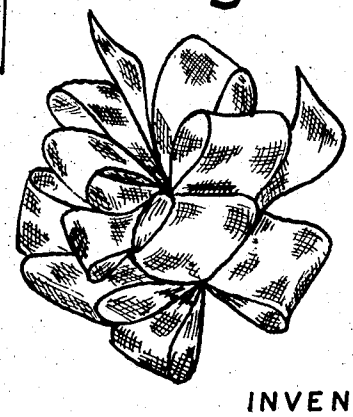


Fig. 3



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Fig. 5

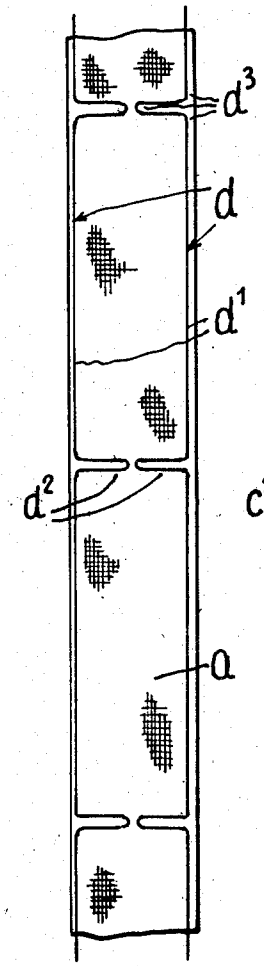


Fig. 4

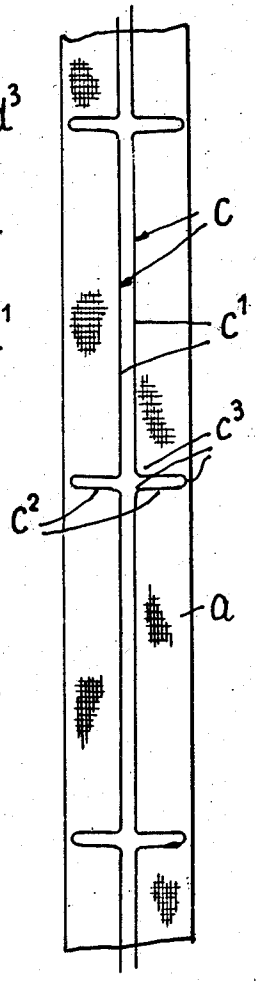
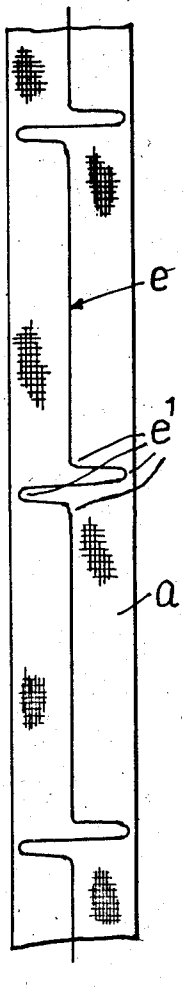


Fig. 6



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2,826,225

DECORATIVE RIBBONS

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Application November 30, 1956, Serial No. 625,407

Claims priority, application Switzerland August 3, 1956

11 Claims. (Cl. 139—383)

The present invention relates to a decorative ribbon which can be formed into a multiple loop for decorative purposes, e. g. on a bonbon box or another gift box. Previously such bows have been made manually with aid of threads. To facilitate this time-consuming work, decorative ribbons comprising a straight tension element woven into them throughout their length have been made, which can be pushed together on said tension element in order to be pleated. This does not lead, however, to a formation comprising a plurality of loops but to a waveshaped formation which may be described as a ruche or rosette.

The decorative ribbon according to the invention lends itself in a very simple manner to the formation of a multiple loop of the type which has previously been obtainable only by a time consuming manual operation, as has been set forth hereinbefore.

This decorative ribbon is characterized in that it is provided on one side with at least one auxiliary thread which extends throughout the length of the ribbon and has alternating longitudinal and transverse sections, which are connected to the ribbon fabric at the points where the thread changes its direction, the arrangement being such that a contraction of the ribbon on the auxiliary thread will cause the ribbon portions between every two transverse thread sections to form loops having adjoining ends contracted by the transverse pulling action of the transverse thread sections, whereby several such ribbon sections form a multiple loop.

Four embodiments of the invention are illustrated on the accompanying drawing.

Fig. 1 shows the first embodiment of a decorative woven ribbon in an extended condition.

Fig. 2 shows the same ribbon having one section pleated.

Fig. 3 shows a multiple loop formed by pushing said ribbon together, and

Figs. 4, 5 and 6 show three other embodiments of decorative ribbons.

The decorative woven ribbon a shown in Figs. 1 and 2 is provided on one side thereof with two auxiliary threads b, which follow a saw tooth line to form longitudinal and transverse sections b^1 and b^2, respectively. Each of the two auxiliary threads is woven into the ribbon fabric only at the corners of each tooth, i. e. at the points b^3 and b^4 where the thread changes its direction. The weaving of the two auxiliary threads b into the ribbon fabric is suitably effected during the manufacture of the ribbon on a ribbon loom which is provided with additional means for this purpose. If desired the auxiliary threads could also be connected to the completed ribbon fabric with the aid of a zig-zag sewing machine. In either case the thread sections between two connecting points of the thread lie loosely on the ribbon fabric.

When the decorative ribbon thus constructed is pushed together on the two auxiliary threads b, a loop a^1 will be formed between every two transverse thread sections b^2 succeeding in the longitudinal direction of the ribbon.

As is shown in Fig. 2 the ends of said loops a^1 have been approached to each other and constricted. When the ribbon is contracted throughout its length these several loops a^1 are bundled to form a multiple loop, in which the auxiliary threads are disposed at the center and no longer visible from the outside, as is shown in Fig. 3.

The same effect can be achieved if the two auxiliary threads are arranged as is shown in Figs. 4 and 5. According to Fig. 4 the longitudinal sections c^1 of the two auxiliary threads c extend parallel to each other in the longitudinal center zone of the ribbon a. The two threads form regularly spaced outwardly directed projections c^2 and are woven to the ribbon fabric at the points c^3 where the threads change their direction. In this case the contacting of the ribbon a on the two auxiliary threads c will also cause a loop to form between the projections c^2 succeeding in the direction of the ribbon. The adjoining ends of said loop are constructed by the transverse pulling action of the projecting thread sections c^2.

According to Fig. 5 the parallel thread sections d^1 of the two auxiliary threads d extend in the edge portions of the ribbon a and form regularly spaced inward projections d^2 directed towards each other. These two threads d are again woven into the ribbon fabric only at the points d^3 where the thread changes its direction.

Tests have shown that a single auxiliary thread is sufficient for forming the desired multiple loop if the same is subsequently carefully rearranged, if necessary. Such a thread arrangement is shown in Fig. 6. The auxiliary thread e extends along the center line of the ribbon a and forms regularly spaced waves consisting each of two half waves. The thread is woven into the ribbon fabric at the four points e^1 where the thread changes its direction. Contracting the ribbon a on the auxiliary thread e will cause the formation of a multiple loop similar to those described hereinbefore though it may not be so pleasing in appearance as those obtained where two auxiliary threads are provided. That auxiliary thread might also extend along a saw tooth line, like one of the two threads a and b in Fig. 1. In that case the transverse thread sections would extend substantially across the entire width of the ribbon.

What is claimed is:

1. A decorative ribbon product which comprises a ribbon of flexible material having an auxiliary thread extending throughout the length of said ribbon, said auxiliary thread changing its direction at spaced points so as to form alternating longitudinal and transverse sections therein and being slidingly connected to the ribbon at said points whereby said ribbon can be collected on said auxiliary thread by sliding the ribbon along said thread to cause the portions of the ribbon between said transverse sections succeeding in the longitudinal direction of the ribbon to form loops having mutually adjoining ends brought together by the action of said transverse sections, all said loops combining to form a multiple looped bow structure.

2. A decorative ribbon product as defined in claim 1 wherein said longitudinal sections are disposed at an angle to the longitudinal center line of said ribbon and said transverse sections are disposed at a different angle to said center line.

3. A decorative ribbon product as defined in claim 1 wherein said longitudinal sections extend along the longitudinal center area of said ribbon and said transverse sections extend outwardly therefrom and terminate adjacent the lateral edges of said ribbon whereby said edges are drawn together when said looped bow structure is formed.

4. A decorative ribbon product as defined in claim 1

comprising two of said auxiliary threads, said threads being arranged symmetrically with respect to the longitudinal center line of said ribbon.

5. A decorative ribbon product as defined in claim 4 wherein the longitudinal sections of both said threads are substantially parallel to the longitudinal center line of said ribbon and said transverse sections are substantially normal thereto.

6. A decorative ribbon product as defined in claim 4 wherein the longitudinal sections of said threads extend along the lateral edges of said ribbon and said transverse sections extend inwardly towards the center area of said ribbon.

7. A decorative ribbon product as set forth in claim 1 wherein said auxiliary thread follows a saw tooth line.

8. A decorative ribbon product as set forth in claim 1 wherein said auxiliary thread is woven into said ribbon at said points.

9. A decorative ribbon product as set forth in claim 1 wherein said auxiliary thread is sewn to said ribbon at said points.

10. A decorative ribbon product as set forth in claim 1 wherein the longitudinal sections of said auxiliary thread extend along the longitudinal center area of said ribbon and each transverse section comprises a loop which extends from the end of a longitudinal section outwardly to a point adjacent the lateral edge of said ribbon and inwardly therefrom to the end of the next adjacent longitudinal section.

11. A decorative ribbon product as set forth in claim 1 wherein said thread has its major portion on one side of said ribbon.

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