The present invention relates to new and useful improvements in structural refinements in weaving forms for making floral designs, pom-poms, or similar ornamental devices, and is directed more particularly to the provision of a series of pom-pom rings and to an improvement in the means for making designs therewith.

The invention resides in the particular arrangement, construction and relationship of the various elements of the weaving form as exemplified in the detailed disclosure hereinafter set forth wherein the objects of the invention as defined in the paragraphs below will be apparent.

It is the principal object of the present invention to provide a novel and improved construction of the type in which the resultant design made therewith may be more easily removed therefrom so as to eliminate the objectionable inconveniences now present in the prior art.

Another of the primary purposes hereof is to provide advantageous structural and operational features in a device of the class to which invention has been made leading to its simplicity in construction, its adaptability to economical manufacture and its efficiency and dependability in operational use, and providing important distinct advantages in durability, efficiency, ease of operation and the like.

The invention takes the form of a multiple unit comprising a plurality of weaving forms or rings which may be used as pairs to weave or knit different sizes of designs, the pairs of forms being so arranged that designs may be interwoven therearound in a variety of forms to produce knitted or woven articles of novel design which, upon completion, may be easily removed therefrom.

Forms such as here contemplated are used for producing designs which are knitted or woven by hand from plain or colored yarns. The design features may then be linked together by a crochet stitch or the like to form knitted articles such as bedspreads, pillow covers and the like or they may be individually attached as by sewing to garments as decorative devices.

Another primary object hereof is to provide a device having the following inherent advantageous characteristics: first, the achievement of a higher degree of accuracy and greater degree of variety in the manner of work performed therewith than has heretofore been possible with prior devices known in the art; second, the attainment of a more economical and higher speed of construction and assembly of the device due to its simplification of design and its unique composition of coacting parts; third, the attainment of a flexibility or a capability of adjustment by which a large variety of work can be produced by means of the same device; and fourth, the provision of such other improvements in and relating to pom-pom rings of the type above referred to as are hereinafter described and claimed.

The present device contains many specific improvements in construction and association of the various elements which themselves are a minimum in number, with a resulting decreased cost of manufacture and increased facility of use, it being an object hereof to provide a construction in which the number of operating parts is greatly reduced and which is simple and compact in accordance with the demands and desires of manufacturers and purchasers alike and which is not only distinctive in its appearance and practical in its value but also reliable in its operation and efficient in its use.

Other objects and advantages of the present invention will be in part obvious or in part pointed out more fully hereinafter. All will become apparent at the detailed description of the exemplary form of the invention intended to be protected by Letters Patent proceeds below; it being understood that the invention consists substantially in the combination, construction, location and relative arrangement of parts as described in detail hereinafter, as shown in the accompanying drawing, and as defined with particularly in the appended claim forming a part hereof.

It will be understood however that this physical embodiment is only indicative of but one of the various ways in which the principles of the invention may be employed and in which the component parts may be combined and arranged. It is not intended to be exhaustive of nor limiting of nor departing from the spirit of the invention. That is, the precise construction of the figures of the drawing need not be slavishly followed. No limitations therefore are to be implied from the following specific description.

Some is merely given with a view to illustrating and explaining the principles of the invention and their embodiment for practical use, in order that others skilled in the art may be enabled to adapt and modify them in numerous embodiments, variations and modifications, each as may be best adapted to the conditions of any particular use.

That is to say, the objects of the invention may be attained by use of constructions different in certain respects from that disclosed such as in size, form, proportion and the like, all without departing from the underlying principles and scope of the invention. The invention is susceptible of some, without departing from the real spirit or scope hereof. Such adaptations and/or changes should be and are intended to be comprehended within the meaning and range of equivalence of the claim annexed below.

The novel features which are believed to be characteristic of my invention are set forth in the appended claim. The invention itself, however, both as to its construction and methods of manufacture, together with other objects and advantages thereof, will be better understood by reference to the following description taken in connection with the accompanying drawing in which:

FIG. 1 is a plan view of a set of rings embodying the novel features of the invention; and

FIG. 2 is an enlarged sectional view on the line 2—2 of FIG. 1, and showing two sets of rings in adjacency;

FIG. 3 is a sectional view through an intermediate ring of a set thereof; and

FIG. 4 is a plurality of edge views of corresponding outer, intermediate and inner rings with inner faces thereof in contiguous relation as they are disposed when in operational use.

In the following description and claim, various details will be identified by specific names for convenience. These names however are intended to be as generic in their application as the art will permit; having reference now to the drawing, which illustrates a typical embodiment of the invention for the purpose of disclosure and forms a part of this specification, and referring more particularly to the preferred form of my invention selected for illustrative purposes, I have shown a set of nested rings in order that the general relation and utility of the device of the invention may be better understood.

A set of nested rings is provided and includes inner, intermediate, and outer rings. In operational use, corresponding rings of two of the sets are employed, as will subsequently appear.

Each ring has a peripheral flange on the outer side of
the ring terminating in an inner annular shoulder, a flat inner face, and a peripheral bevel at the jointure of said shoulder and face. The outer and intermediate rings have inner lips to abut the inner side of the flanges of the intermediate and inner rings which terminate slightly outwardly of the shoulders of said rings providing holes in said outer and intermediate rings. The inner ring is provided with a central hole.

Each of the rings is formed of the same thickness of material so that, when in the nested relation as shown in FIG. 1, a smooth, even appearance results.

The periphery of the flange of the inner ring is bevelled to interfit with a bevel of the circumadjacent intermediate ring, and the periphery of the flange of the intermediate ring is bevelled to interfit with a bevel of the circumadjacent outer ring.

The inner ring is indicated by 2, the flange thereof by 6, the shoulder thereof by 8, and the inner bevel thereof by 10. The central hole of said ring is shown at 11.

The intermediate ring is indicated by 12, the flange thereof by 14, the shoulder thereof by 16, the inner bevel thereof by 18, and the inner lip thereof by 20. The central hole of said ring is indicated by 21.

The outer ring is indicated by 22, the flange thereof by 24, the shoulder thereof by 26, and the inner bevel thereof by 28. The inner lip of said ring is indicated by 30 within which is a central hole, as shown in FIG. 2.

The bevelled periphery of the flanges 6 and 14 of the inner and intermediate rings and the bevelled portions of the rings interfitting therewith are indicated by 34 and 36 in FIGS. 1 and 2.

The rings of a set preferentially will be formed from a plastic or other light-weight material which is sufficiently yieldable or resilient so that the rings of a set may be readily and easily snapped into interfitting relation of FIGS. 1 and 2 or separated from one another, as may be desired.

The yarn may be applied to a single ring of a set in order to make a flower of a desired dimension.

Preferentially however, two rings of identical size are placed in a back-to-back relationship as shown in FIG. 4 to the end that a peripheral groove is provided by the shoulders and the adjacent bevels at the jointures of the said shoulders and the inner faces of the adjacent rings.

With this arrangement, an end of yarn is held by the operator and the yarn is then wound around the pair of rings passing the yarn through the aligned openings on each winding, and rotating the rings of the pair as the winding operation progresses so that the yarn is evenly distributed over the faces thereof.

Upon completion of the winding, the opposite ends of the yarn are tied together to fasten the yarn. If only a single flower or design is desired, the yarn is then laced or tied in a small circle in the center preparatory to cutting.

The operator inserts the points of a pair of scissors into the aforementioned peripheral groove, same being adapted to receive same due to its relative depth and the parts of the yarn stretched thereover are cut as the pair of rings are rotated so as to insure the cutting of all such parts of the yarn.

With the cutting of the last part of the yarn passing over the peripheral groove, the flower may then be removed from the rings by slipping same through the aligned openings on one side or the other of the rings of the pair.

If desired, the tying operation can follow the cutting operation and may be made by slightly separating the adjacent rings and tying a piece of yarn about the severed strands wherefor a pompon results.

A large number of different designs may be made herewith, by varying the size of the rings of the pair employed and by varying the manner of weaving one design on another, since the invention is susceptible of various changes and modifications without departing from the real spirit or underlying principles of the invention.

Without further analysis, the foregoing is intended to so fully reveal the gist of my invention and the construction and operation of the device thereof that others can, by applying current knowledge, readily adapt it for various applications without omitting features which, from the standpoint of prior art, fairly constitute essential characteristics of the generic or specific aspects of this invention. The substitution of equivalents and other changes, modifications and alterations are contemplated, as circumstances may suggest or render expedient, since the invention is susceptible of various changes and modifications without departing from the real or underlying principles of the invention.

In other words, it is not desired to limit the invention to the exact construction shown and described as the objects of the invention may be attained by the use of constructions different in certain respects from that disclosed.

Accordingly, limitation of this invention should be made only as determined by a proper interpretation of the terms used in the subjoined claim.

It is intended to claim the invention, broadly as well as specifically, as indicated by the appended claim.

What is claimed as new and useful is:

In the art of forming designs of yarn, a multi-size device comprising, a pair of sets of nested rings of different sizes, each of the rings of a set of each of said pair thereof being formed of a resilient material for separable interlocking engagement in concentric relation as a series of concentric circles in a single plane, each of the rings of a set of each of said pair thereof having outer and inner faces and being provided with an outer peripheral flange terminating in an outer annular shoulder adjacent the inner face thereof and with an inner peripheral flange terminating in an inner annular shoulder adjacent the outer face thereof for facilitating the resilient engagement of the rings of a set as a unit in circumadjacencity, the recited combination being such that corresponding rings of the sets of said pair thereof may be selectively disposed with their inner faces in face-to-face relationship for providing an outermost peripheral groove formed at the jointure of the respective outer annular shoulders.

References Cited in the file of this patent

UNITED STATES PATENTS

834,213 Maddox Oct. 23, 1906
1,430,737 Harwood Oct. 3, 1922
1,872,281 Hansen Aug. 16, 1933

FOREIGN PATENTS

518,550 Canada Nov. 15, 1955
1,036,467 France Sept. 8, 1953
510,939 Germany Feb. 22, 1929
273,109 Great Britain June 30, 1927