June 10, 1930. A. B. COLLINGBOURNE 1,762,386

PACKAGE OF YARN OR THE LIKE

Filed Jan. 16, 1928

Fig. 1.

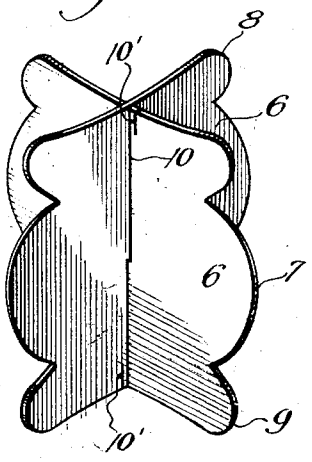


Fig. 2.

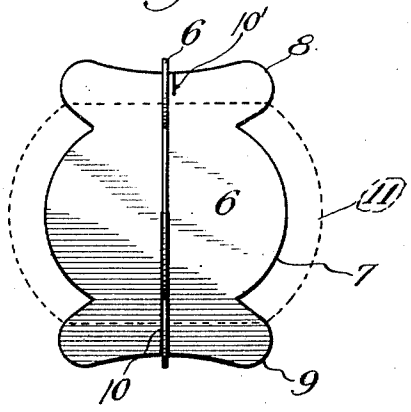


Fig. 3.

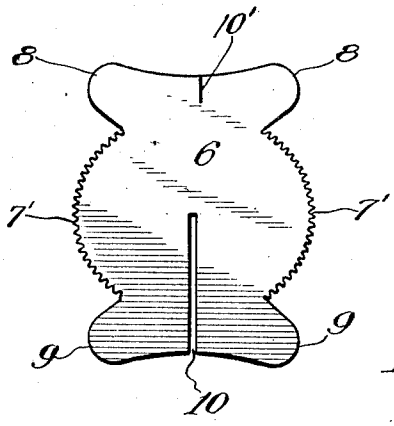


Fig. 4.

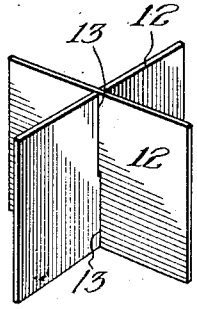
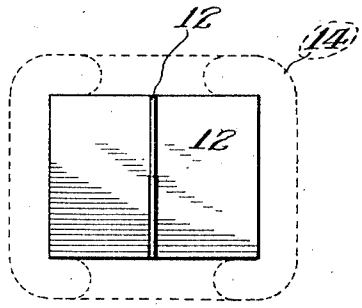


Fig. 5.



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Patented June 10, 1930 1,762,386

UNITED STATES PATENT OFFICE

ALBERT B. COLLINGBOURNE, OF ELGIN, ILLINOIS, ASSIGNOR TO COLLINGBOURNE MILLS, INC., OF ELGIN, ILLINOIS, A CORPORATION OF ILLINOIS

PACKAGE OF YARN OR THE LIKE

Application filed January 16, 1928. Serial No. 247,204.

This invention relates to a package of thread, yarn or the like and more particularly to the spool or device upon which the thread or yarn is wound.

One of the objects of the invention is to provide an efficient and economical substitute for wooden spools and cylindrical cores heretofore used for receiving thread and yarn. Another object is to produce a device for holding yarn wound thereon which may be shipped or stored in knocked down, flat form, and which may be readily assembled into operative form.

The advantages resulting from my invention will be apparent as I proceed with my specification.

In the drawings:

Figure 1 is a perspective view of the assembled spool adapted to have yarn or thread wound thereon.

Figure 2 is a side view of the same, indicating in dotted lines the thread wound thereon.

Figure 3 shows one of the two card-board blanks used in making the spool.

Figure 4 shows a modified form of spool or core.

Figure 5 is a side view of the device of Figure 4, the dotted lines indicating the yarn wound thereon.

Referring now to that embodiment of my invention shown in Figures 1 to 3, inclusive, 6 indicates a blank comprising a flat piece of relatively stiff card-board of any desired form, two of which are assembled to produce the core or spool shown in Figure 1. The blank 6 is preferably cut so as to have a curved barrel portion 7 and upper and lower wings 8 and 9, respectively, at each side of the blank. The edge of the barrel portion 7 may be smooth as shown in Figures 1 and 2, or serrated as indicated at 7′ in Figure 3. A slit 10 extends longitudinally from either the top or bottom margins to a point half way between said top and bottom edge of the blank, and the slit is as wide as the thickness of the card-board. A short cut or slit 10′ is provided at the edge opposite the slit 10, slightly to one side of the longitudinal median line of the blank, for the purpose of receiving and holding the end of the yarn or thread.

In assembling two of the blanks 6, just described, one blank 6 is arranged to have its slit portion 10 toward the bottom, and the other toward the top of the spool, the marginal walls of each of said slotted portions being in frictional engagement with the opposite end portion of the other blank.

Yarn or thread 11 is preferably wound on the spool so as to cover the barrel portions 7 or 7′, and to engage the proximate margins of the wings 8 and 9, leaving the major portions of said wings exposed as clearly shown in Figure 2. The shape of the barrel portion 7 provides a wide winding area for the yarn and the serrated edge 7′ holds the yarn in its intended position.

In Figures 4 and 5, I have shown a rectangular form of blank, indicated at 12, provided with a slit 13; two of said blanks 12 being assembled together in the manner heretofore described with respect to the blanks 6. When using the form of blanks shown in Figures 4 and 5, I preferably wind the yarn 14 to overlap the top and bottom margins of said blanks 12, whereby I form a substantially cube-shaped package of yarn.

It will be manifest that spools or cores embodying my invention are relatively cheap to produce, take small space in storage, and may be adapted for use in packages of yarn of various shapes. I am also enabled to save the expense of a ball check and surrounding band to hold the yarn in place, such as now required when wooden spools and card-board drums or cylindrical cores are used for holding the yarn.

By providing a plurality of flat blanks connected together so as to extend radially with respect to their connecting means, the familiar spools and cylindrical drum cores may be dispensed with.

I claim as my invention:

1. A spool for holding wound yarn or thread, comprising a plurality of relatively stiff blanks each having a slit extending inwardly from one margin, the marginal walls of the slit portion of each blank be-

ing in frictional engagement with the other blank.

2. A spool for holding wound yarn or thread, comprising a plurality of relatively stiff blanks each being slit longitudinally from one margin to a point half way between the upper and lower margins of the blank, the blanks being arranged at right angles to each other and with the marginal walls of the slit portion of each blank in frictional engagement with the unslit portion of the other blank.

3. A spool for holding wound yarn or thread, comprising a plurality of relatively stiff card-board blanks, said blanks having curved yarn receiving marginal edges and upper and lower wing portions, and each of said blanks being slit inwardly from one margin, the marginal walls of the slit portion of each blank being in frictional engagement with the other blank.

4. A spool for holding wound yarn or thread, comprising a plurality of relatively stiff cardboard blanks, connected together and extending radially, the outer longitudinal margins of each of the blanks being cut to form a curved yarn-receiving edge, and upper and lower wing portions at each end of the curved yarn receiving edge.

In testimony that I claim the foregoing as my invention I affix my signature this 12th day of January, 1928.

ALBERT B. COLLINGBOURNE.