

Sept. 3, 1946.

R. F. MORCALDI D'

2,407,031

KNOTTED NEEDLEWORK WITH TIED LOOPS

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Fig. 1.

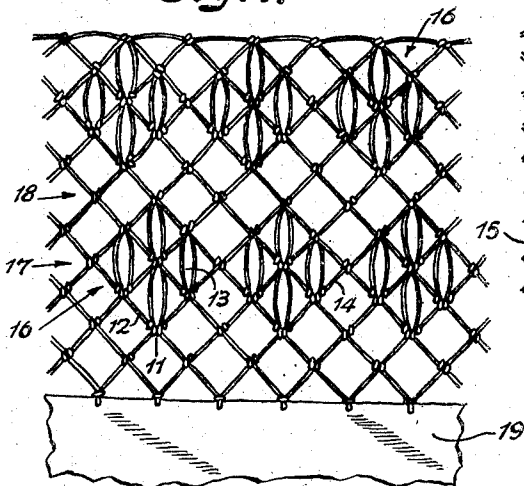


Fig. 2.

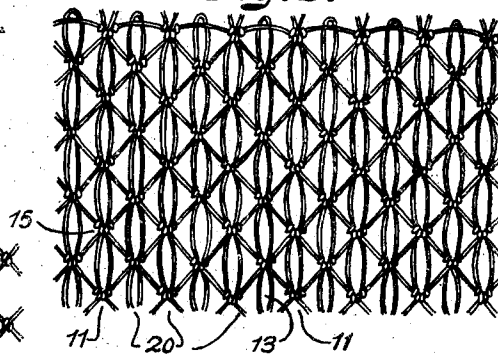


Fig. 4.

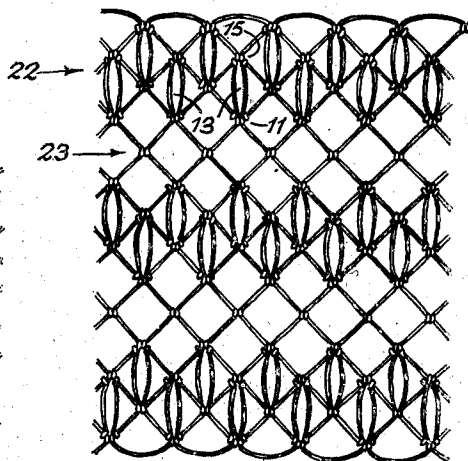


Fig. 3.

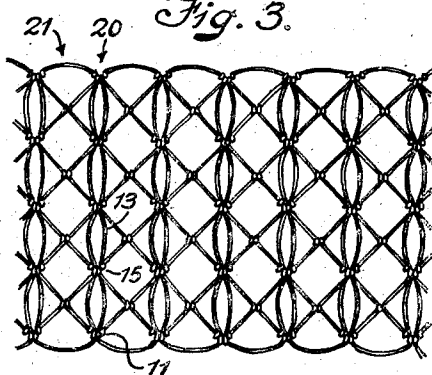
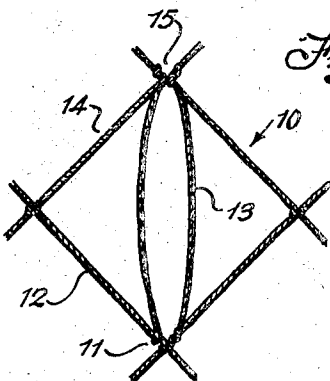


Fig. 5.



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lengths of uniform width and intended for sale by yards.

Clearly, instead of providing one loop in each square, two or three loops similarly knotted may be provided in each square, each loop knotted at both ends.

It is to be understood that the invention as here disclosed is not limited to the details here described and shown but that the same may be varied without departing from the spirit of the invention as defined by the subjoined claims.

I claim:

1. An article of manufacture from a single, continuous strand consisting of a foundation needlework of tightly knotted meshes forming open squares, and loops within certain of the squares secured between opposite knots in such squares.

2. An article of manufacture from a single, continuous strand consisting of a foundation needlework of tightly knotted meshes forming open squares, running diagonally of said foundation and loops within certain of the squares secured between opposite knots in such squares, such open square and looped squares being arranged in relation to each other to provide specific patterns.

3. An article of manufacture from a single,

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continuous strand consisting of a foundation needlework of tightly knotted meshes forming open squares, running diagonally of said foundation and loops within certain of the squares secured between opposite knots in such squares, such open squares and looped squares being arranged in relation to each other to provide specific pattern bands running horizontally across said foundation.

4. An article of manufacture from a single, continuous strand consisting of a foundation needlework of tightly knotted meshes forming open squares, and loops within certain of the squares secured between opposite knots in such squares, such looped squares being arranged in uniformly spaced bands running across said foundation.

5. An article of manufacture from a single, continuous strand consisting of a foundation needlework of tightly knotted meshes forming open squares, running diagonally of said foundation, and loops running vertically of said foundation within certain of the squares secured between opposite knots in such squares, such open squares and looped squares being arranged in relation to each other to provide specific patterns.

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simultaneously contracting the latter on its shaft.

Figure 10 discloses a further modification which consists in providing the bushing 41 with an annular shoulder adjacent one end, against which the flange 42 bears when the bolts 43 are rotated to draw the hub 44 and flange 42 together to tighten the sleeve on the shaft. This form does not possess the pulling feature.

Figure 11 is identical in all respects to Figure 10 except that the sleeve 45 is provided with an annular recess at a point spaced from an annular shoulder adjacent one end to receive a snap ring 46 which latter affords a stop for the flange 47 when the bolts 48 are reversed to move the flange and hub 49 apart in the operation of removing the sleeve from the hub.

Figure 12 illustrates a simple form of the invention wherein the flange 50 bears directly against the end of the adapter sleeve 51 when the bolts 52 are rotated to advance the hub 53 and flange 50 towards each other to contract the sleeve 51 on its shaft. This form does not include the retracting feature.

Manifestly, the construction as shown and described is capable of some modification and such modification as may be construed to fall within the scope and meaning of the appended claims is also considered to be within the spirit and intent of the invention.

What is claimed is:

1. A sheave comprising an inseparable hub provided with a tapered bore and an annularly recessed face, a split and correspondingly tapered sleeve mounted in the bore of said hub and having a shouldered, extended end, a series of relatively spaced flange segments on the extended end of said sleeve, a flange ring having correspondingly spaced flange segments on its inner surface adapted to enter between the segments of said sleeve and repose operatively in alignment therewith, bolts passing through apertures in said ring and entering said hub and effective, when advanced, to draw said ring into the recess of said hub and to simultaneously contract said sleeve, said bolts being likewise effected, when reversed, to retract said ring and sleeve by contacting the segments of the former with those of the latter to release said sleeve for expansion.

2. A sheave wheel and mounting including a body having an integral and internally tapered hub provided with an annular recess surrounding its bore, a sleeve split longitudinally at one point and of otherwise unbroken continuity and whose

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outer periphery is shaped to lie in and conform to the tapered interior of said hub and whose wall thickness accentuates the resiliency thereof, said sleeve further having an annular groove adjacent one end and circumferentially spaced recesses defining intermediate segments, a thrust flange embracing an end of said sleeve, disposed in the annular recess of said hub and having spaced lugs receivable in said recesses and rotatable to a position behind said segments to effect interlocking relationship of said flange and sleeve and means connecting said flange and hub to effect a drawing together of said flange and hub and consequent contraction of said sleeve.

3. A sheave and mounting including a body having an inseparable hub provided with a conical bore, a single piece, split sleeve having a substantially thin wall and a tapered exterior disposed in said bore, circumferentially spaced segments on one end of said sleeve, a flange ring connected to an extended end of said sleeve, a series of spaced lugs on said flange ring for interlocking engagement with the segments of said sleeve and means for moving said flange ring in relation to said hub to effect corresponding movement and resultant contraction and expansion of said sleeve.

4. A wheel and adapter mounting including a body having an inseparable hub provided with a tapered bore, a split bushing in one piece having a substantially thin, resilient wall, and disposed in said bore, a flange ring embracing an extended end of said bushing, means on said sleeve and on said flange ring cooperating to effect interlocking relationship of said sleeve and flange ring, bolts passing through said flange ring and entering said hub and adapted, when rotated, to relatively move said hub and flange ring to effect contraction and expansion of said bushing.

5. A sheave comprising an integral and interiorly tapered hub, a sleeve of resilient material, split longitudinally at one point and disposed in said hub, a ring releasably mounted on an extended end of said sleeve, radial, circumferentially spaced segments on said extended end of said sleeve, spaced lugs arranged on said ring to effect interlocking relationship of said ring and sleeve and means connecting said ring and hub for moving said ring in one direction to effect contraction of said sleeve and in another direction to release the same to its own inherent resiliency for expansion.

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