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YARN MOISTENING ATTACHMENT FOR KNITTING MACHINES.

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Fig. 3.

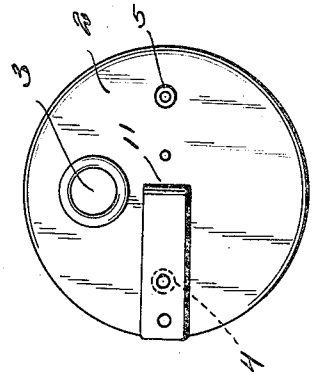
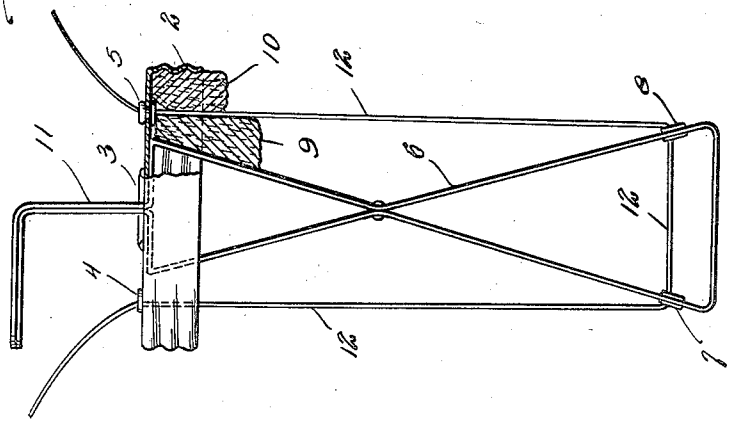


Fig. 2.



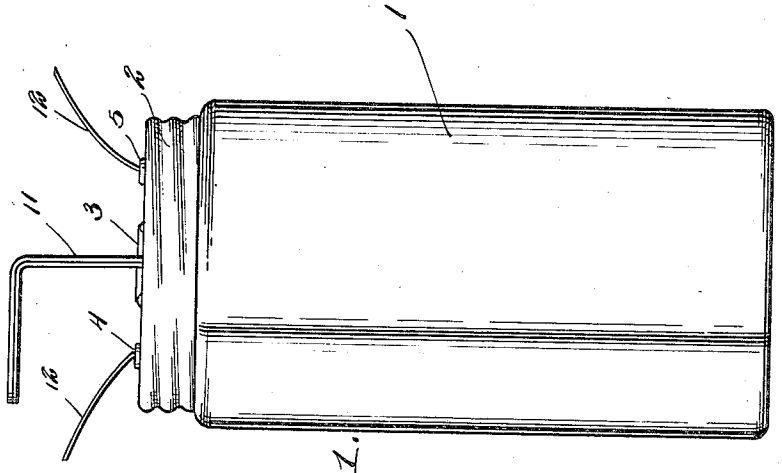


Fig. 1.

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UNITED STATES PATENT OFFICE.

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YARN-MOISTENING ATTACHMENT FOR KNITTING MACHINES.

Application filed August 6, 1920. Serial No. 401,570.

To all whom it may concern:

Be it known that I, BEALE J. FAUCETTE, a citizen of the United States, residing at Durham, in the county of Durham and State of North Carolina, have invented new and useful Improvements in Yarn-Moistening Attachments for Knitting Machines, of which the following is a specification.

My present invention has for its object the provision of a device for saturating yarn with chemical solution for wet knitting; the yarn being placed upon the knitting machine in a dry state and being passed through the moistening device and directly therefrom to the needles of the knitting machine so as to be knit while wet into hosiery and other articles.

To the attainment of the foregoing the invention consists in the improvement as hereinafter described and definitely claimed.

In the accompanying drawings, hereby made a part hereof:—

Figure 1 is a side elevation of my novel device.

Figure 2 is a detail view of the hanger comprised in the device.

Figure 3 is a plan view of the device.

Similar numerals of reference designate corresponding parts in all of the views of the drawings.

Among other elements my novel device comprises a jar 1 on which is screwed or otherwise fixed a closure cap 2. The said closure cap 2 is provided with a filling opening 3 and with eyelets 4 and 5 which latter are preferably arranged at diametrically opposite points as illustrated.

Arranged in the jar 1 and pendent from the cap 2 is a hanger 6 which extends to a point adjacent to the bottom of the jar and is there provided with widely separated eyelets 7 and 8. The said hanger 6 is also provided with a swab 9, and the said swab 9 which is arranged adjacent to the cap 2 is slightly spaced from a swab 10 on the cap 2. In the preferred specific embodiment of the invention a portion of the hanger 6 is extended upwardly through the cap 2, as indicated by 11 and is adapted to be connected to a portion of the knitting machine frame so as to maintain the moistening device in proper working position relatively to the organized mechanism of the machine.

In the practical use of my improved device the jar is charged with a chemical solution such as used for wet knitting, and the yarn, indicated by 12 is passed through the device in the manner shown in Figures 1 and 2—i. e., is carried through the eyelet 4, the eyelet 7 and the eyelet 8, in the order named, and also through the solution in the jar. The yarn is then carried between the swabs 9 and 10, the function of which is to rob the yarn of excess solution so as to assure uniform moistening of the yarn. The yarn is then carried out of the device through the eyelet 5 and then passes directly to the needles of the organized knitting mechanism so as to be knit while in a wet state into hosiery and other articles.

It will be apparent from the foregoing that through the medium of my novel attachment the yarn may be inexpensively and effectively moistened; also, that my improvement is a material simplification of extant apparatus. It will further be appreciated that my improvement averts waste of yarn and is calculated to accomplish the adequate moistening of the yarn without labor or attention on the part of the attendant of the machine to which the device is attached.

As indicated in the foregoing my improvement is adapted for use to advantage in conjunction with knitting machines, automatic or otherwise, for hosiery, gloves, underwear, lace and all other articles.

Having described my invention, what I claim and desire to secure by Letters-Patent, is:—

1. A moistening attachment for knitting machines comprising a jar, a cap secured thereon and having openings for the inward and outward passage of yarn, respectively, a hanger in the jar and carried by the cap and having adjacent to the bottom of the jar means to guide yarn, the said hanger having a portion extended upwardly through the cap and adapted to be connected to a portion of a knitting machine, and means carried by the cap and hanger and located in the jar to remove excess moisture from yarn precedent to the passage of the same out of the attachment.

2. A device adapted to be associated with a jar to constitute a moistening attachment

for knitting machines, the said device comprising a cap equipped for connection to a jar and having openings for the inward passage and upward passage of yarn, respectively, a hanger in the jar and on the cap and extending through the cap and adapted for connection to the frame of the machine and having in its lower portion guide means for yarn, a swab on the upper portion of the hanger, and a swab within and carried by the cap and arranged adjacent to the first-named swab.

In testimony whereof I affix my signature.

BEALE J. FAUCETTE.