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(54) **Method and tubular band with a separable portion for carrying out quick overlocking**

Schlauchförmiger Bund mit einem trennbaren Teil und verfahren zum Ansetzen des Bundes an den Rand eines Gestricks

Bande tubulaire avec une portion séparable et procédé pour son montage au bord d'un tricot

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EP-A- 0 300 253 **US-A- 3 658 020**

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Description

[0001] The present invention relates to a method and a band for carrying out quick overlocking of knitted fabric edges.

[0002] In the knitting field the so-called quick-overlocking technique is known, according to which the edges of knitted articles of garment are finished by sewing appropriate knitted bands or edging ribbons thereon. For quick application, the bands are often made up of a tubular portion which is folded along its extension so as to form a loop inside which the edge to be trimmed is received. Edge and band are then sewn together (see for example US 3658020A). This technique, which is certainly quick and which can be easily executed by machine, has the drawback that the bottom portion of the loop (remaining inside the sewed band) forms a thickness impairing the aesthetic aspect of the band which appears swollen and, in addition, relatively stiff and hard.

[0003] It is a general object of the present invention to eliminate the above-mentioned drawbacks by providing a method and a band for carrying out quick overlocking, which enable a result of better quality to be achieved while keeping the practical assembling character of the traditional tubular bands.

[0004] In view of the above object, in accordance with the invention, a method of carrying out quick overlockings has been devised which comprises the steps of manufacturing a band with at least one tubular portion in which at least two courses of the knitted fabric are made of a yarn capable of being melted upon increasing of its temperature beyond a predetermined value; folding back the band for obtaining a loop along the band itself with the two courses of meltable yarn disposed on opposite walls of the loop; inserting an edge of the knitted fabric to be trimmed into the loop; sewing the band to the edge in such a manner that the stitching does not affect the loop bottom included between the two courses of meltable yarn; heating the band beyond the melting temperature of the meltable yarn so as to separate the loop bottom from the rest of the band; slipping off the loop bottom from the band inside.

[0005] The invention also relates to a band for quick overlocking, comprising at least one tubular portion intended to be folded so as to form a loop along it for receiving an edge of a knitted fabric to which the band is to be sewn, characterized in that the tubular portion of the band has at least two courses of the knitted fabric made of a meltable yarn, said at least two courses being spaced apart from each other by such a distance that they are disposed on opposite walls of the loop on folding of the band for forming the loop.

[0006] For better explaining the innovatory principles of the present invention and its advantages over the known art, a possible embodiment applying said principles will be given hereinafter, by way of non-limiting example, with the aid of the accompanying drawings. In

the drawings:

- Fig. 1 is a diagrammatic perspective view in section of an annular band made in accordance with the invention, sewn in place on the edge to be trimmed;
- Fig. 2 is a diagrammatic view of a separation region of the band of Fig. 1.

[0007] With reference to the drawings, shown in Fig. 1 is a tubular band, generally denoted by 10, folded back to form a loop 11 in which the edge 12 of a knitted fabric to be trimmed is received. The band 10 is sewn in place by a stitching carried out along line 13. In accordance with the principles of the invention, the band is manufactured with two courses 14, 15 of a yarn of a meltable material.

[0008] In particular, this yarn can be of a type meltable at a given temperature, higher than the room temperature but lower than the temperature of substantial alteration of the traditional yarn, of which the rest of the band is made. For example, the preferred melting temperature can be a temperature that can be easily reached with an usual iron. An appropriate yarn can be the yarn called "GRILON".

[0009] Shown in Fig. 2 is a possible development of a course of special yarn within the band.

[0010] Turning back to Fig. 1, the two meltable courses are carried out in the band in such a manner that they can be disposed inside the loop 11 so as to form a separation line between the loop bottom 16 and the two flaps 17, 18 of the sewn portion along line 13.

[0011] In use, after the band has been folded, the edge to be trimmed has been inserted thereinto and the band has been sewn along line 13, the band itself can be heated beyond the melting temperature of the special-yarn courses 14, 15. After separation, the inner portion 15 of the loop can therefore be axially slipped off and removed from the band, as shown by arrow "A". The result is an internally empty band which is therefore less thick than bands of the known art. This offers a much better aesthetic effect as compared with bands of the known art.

[0012] At this point it is apparent that the intended purposes have been achieved.

[0013] Obviously, the above description of an embodiment applying the innovatory principles of the present invention is for purposes of illustration only and is not to be interpreted as a limitation of the scope of the invention as herein claimed.

[0014] For example, the band can be of a different shape from the tubular one. In particular it can have projecting flaps 19 as shown in chain line in Fig. 1.

[0015] In the present description by "edge of a knitted fabric" it is intended the edge of any article made by knitting, such as pullovers, socks, etc. for example or, at all events, any article which is trimmed using the technique of quick overlocking.

[0016] The meltable courses can also be more than

two, for being sure for example that separation of the bottom portion occurs. In this case, two pairs of meltable consecutive courses can be provided, for example.

Claims

1. A method of carrying out quick overlockings, **characterised by** the steps of:

- manufacturing a band (10) with at least one tubular portion in which at least two courses (14,15) of the knitted fabric are made of a yarn capable of being melted upon increasing of its temperature beyond a predetermined value;
- folding back the band for obtaining a loop (11) along the band itself with the two courses (14,15) of meltable yarn disposed on opposite walls (17,18) of the loop (11);
- inserting an edge (12) of the knitted fabric to be trimmed into the loop;
- sewing the band (10) to the edge (12) in such a manner that the stitching does not affect the loop bottom (16) included between the two courses (14,15) of meltable yarn;
- heating the band (10) beyond the melting temperature of the meltable yarn so as to separate the loop bottom (16) from the rest of the band (10);
- slipping off the loop bottom (16) from the band inside.

2. A band (10) for quick overlocking, comprising at least one tubular portion intended to be folded so as to form a loop (11) along it for receiving an edge (12) of a knitted fabric to which the band is to be sewn, **characterized in that** the tubular portion of the band has at least two courses (14,15) of the knitted fabric made of a meltable yarn, said at least two courses being spaced apart from each other by such a distance that they are disposed on opposite walls (17,18) of the loop (11) on folding of the band (10) for forming the loop (11).

Patentansprüche

1. Verfahren zum Ansetzen eines Bundes an den Rand eines Gestricks, umfassend die Schritte:

- Herstellen eines Bandes (10) mit mindestens einem getrennten Schlauchteil, in dem mindestens zwei Strickreihen (14, 15) mit der Erhöhung seiner Temperatur oberhalb eines vorgegebenen Betrages lösbares Garn ausgeführt sind;
- Umschlagen des Bandes um längs desselben eine Schleife (11) mit den beiden an abgewand-

ten Wänden (17, 18) der Schleife (11) angeordneten zwei Reihen (14, 15) des schmelzbaren Garns;

- Einsetzen eines zu besetzenden Strickrandes (12) in die Schleife;
- Nähen des Bandes (10) am Strickrand (12) ohne mit der Naht den Grund (16) der Schleife zwischen den beiden Reihen (14, 15) des schmelzbaren Garnes zu beanspruchen;
- Erhitzen des Bandes (10) oberhalb der Schmelztemperatur des schmelzbaren Garnes um den Boden (16) der Schleife vom Rest des Bandes (10) zu trennen;
- Abziehen des Bodens (16) der Schleife aus dem Inneren des Bandes.

2. Band zum Ansetzen eines Bundes an den Rand eines Gestricks, umfassend mindestens einen schlauchförmigen Teil, der dazu bestimmt ist, längs desselben zur Bildung einer Schleife (11) zur Aufnahme eines Strickrandes umgeschlagen zu werden, an dem das Band angenäht wird, **dadurch gekennzeichnet, dass** der schlauchförmige Teil des Bandes mindestens zwei Strickreihen (14, 15) aufweist, die mit einem schmelzbaren Garn ausgeführt sind, wobei die mindestens zwei Strickreihen voneinander beabstandet sind, um sich auf abgewandten Wänden (17, 18) beim Umschlagen des Bandes (10) zur Bildung der Schleife (11) zu befinden.

Revendications

1. Procédé pour effectuer des coutures "en surjet" rapides, **caractérisé par** les étapes de:

- fabriquer une bande (10) ayant au moins une portion tubulaire dans laquelle au moins deux rangées (14, 15) de tricot se composent d'un filé en mesure d'être fondu en augmentant sa température au-delà d'une valeur prédéterminée;
- replier la bande pour obtenir une boucle (11) le long de la bande elle-même avec les deux rangées (14, 15) de filé fusible disposées sur les parois opposées (17, 18) de la boucle (11),
- insérer dans la boucle un bord (12) du tricot dont on doit effectuer la finition;
- coudre la bande (10) au bord (12) de sorte que la couture n'intéresse pas le fond de la boucle comprise entre les deux rangées (14, 15) de filé fusible;
- chauffer la bande (10) au-delà de la température de fusion du filé fusible de manière à séparer le fond de la boucle (16) du reste de la bande (10);
- défiler le fond de la bouche (16) de l'intérieur de la bande.

2. Bande (10) pour coutures en surjet rapides, comprenant au moins une portion tubulaire destinée à être pliée de manière à former une boucle (11) le long de celle-ci pour recevoir un bord (12) d'un tricot auquel la bande doit être cousue, **caractérisée en ce que** la portion tubulaire de la bande a au moins deux rangées (14, 15) de tricot se composant d'un filé fusible, lesdites au moins deux rangées étant espacées l'une de l'autre d'une distance permettant leur disposition sur des parois opposées (17, 18) de la boucle (11) lors du pliage de la bande (10) pour former la boucle (11).

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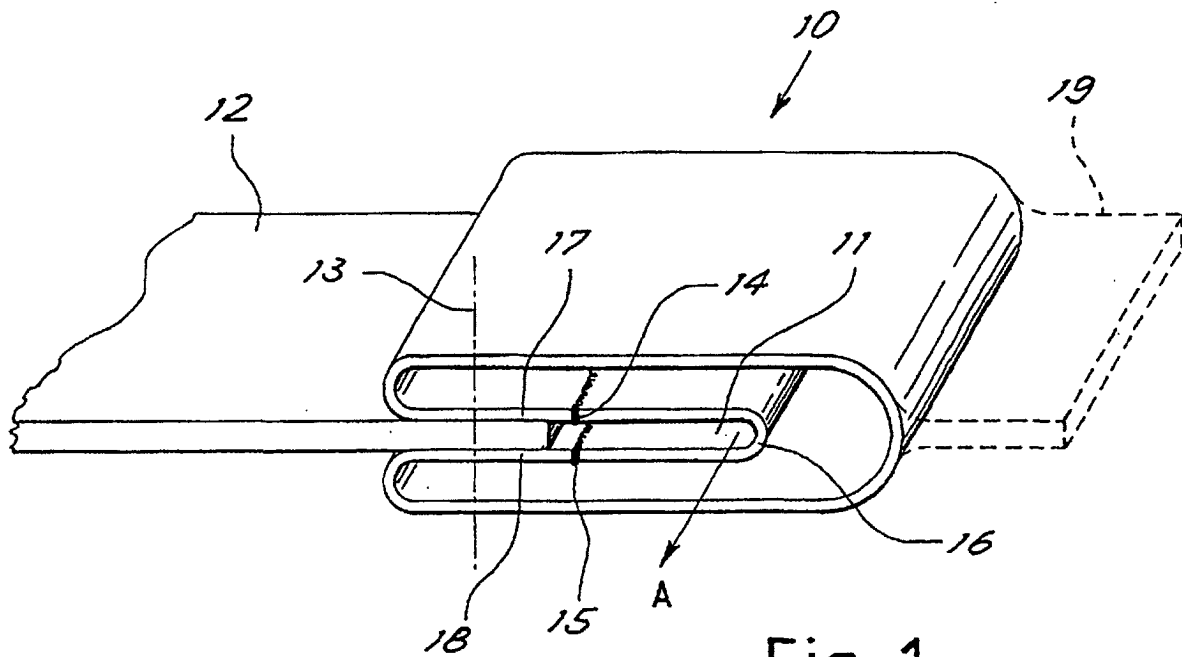


Fig. 1

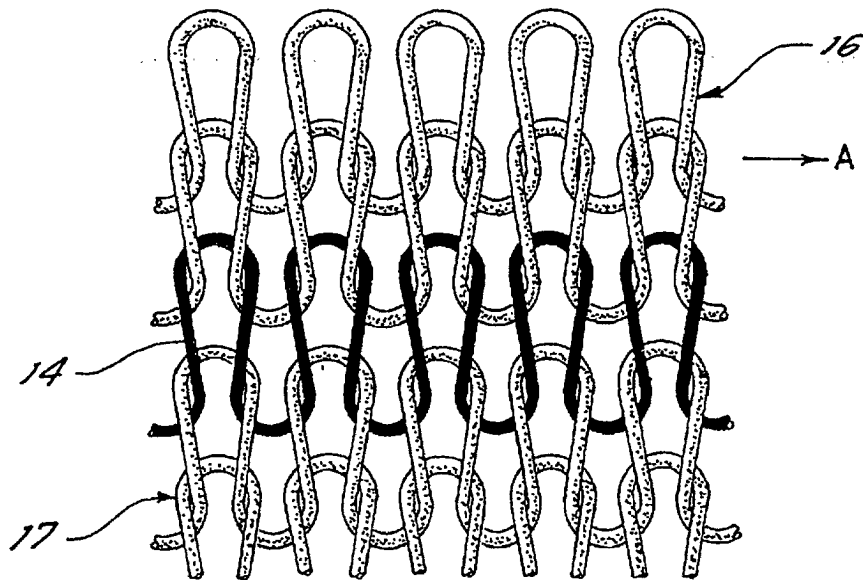


Fig. 2