

Title (en)

Method and device for making a connection between the two edges of a knitted tubular product at the end of its formation

Title (de)

Verfahren und Vorrichtung zum Verbinden von zwei Rändern eines gestrickten schlauchförmigen Produkts am Ende der Herstellung

Title (fr)

Procédé et dispositif pour réaliser l'union de deux bords d'un produit manufacturé tubulaire tricoté au terme de sa formation

Publication

EP 0592376 B1 19970723 (FR)

Application

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Priority

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Abstract (en)

[origin: EP0592376A1] Method for joining two edges of a knitted tubular manufactured product, particularly a stocking (hose), including the phase of manufacturing a manufactured product with a circular machine with just one cylinder, starting with the elastic edge and ending on the side of the tip which remains open, which method envisages: (a) raising a predetermined number of needles (3) of a first half-row; (b) subsequently raising the said needles (3) to allow the corresponding stitches (8) to be taken up; (c) raising to the same level a predetermined number of needles (7) with the stitches (80) of the second half-row; (d) taking up the said stitches (8); (e) lowering the said needles (3) of the first half-row; (f) transferring the stitches (8) thus taken up onto the corresponding needles (7) of the second half-row, turning them over (turning them round, twisting them); (g) raising the needles (7) of the second half-row; (h) locating the superimposed pairs of stitches (8, 80) of each needle (7) of the second half-row strictly juxtaposed and coaxial; (i) subsequently raising the needles (7) of the second half-row; (l) turning the needle cylinder (1) with an intermittent movement and, in each step, inserting a mending-in (grafting, linking) needle (9) into a pair of stitches thus raised, supplying it with some thread (F) used for knitting the manufactured product, without a break in continuity, and then extracting it in order to form a mending-in (grafting) stitch; (m) after making the last mending-in stitch, making two or more than two closure knots (I, II); (n) cutting the thread (F); (o) lowering the needles (7) of the second half-row until the threads are taken down from the hooks. <IMAGE>

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CPC (source: EP KR US)

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Cited by

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