

Title (en)

METHOD AND DEVICE FOR AUTOMATIC ORIENTATION OF HOSIERY ARTICLES

Title (de)

VERFAHREN UND VORRICHTUNG ZUM AUTOMATISCHEN ORIENTIEREN VON STRUMPFWAREN

Title (fr)

PROCEDE ET DISPOSITIF PERMETTANT L'ORIENTATION AUTOMATIQUE DE CHAUSSETTES

Publication

EP 1322810 A1 20030702 (EN)

Application

EP 01971990 A 20010831

Priority

- EP 0110080 W 20010831
- IT PI20000055 A 20000831

Abstract (en)

[origin: WO0218696A1] A sock (1) to be oriented is put random on an elongated support (3). Then a rotation about its own axis is given. In case the sock (1) has a heel (1b), notwithstanding it is elastically stretched on the support (3) this heel is visible since it forms a slight but relevant protrusion. In case the sock is tubular it is fully stretched on the support (3), but the seam of the foot is visible at the top of the support (3). Then during the rotation the passage of the heel (1b) is detected or the seam is detected by means of an optical sensor (4). While sock (1) is in rotation on the support (3), and then with it the protrusion (1b). An optical beam detects this protrusion (1b) or seam and stops the rotation of the sock. Once the sensor (4) has detected the heel (1b) or the seam, the rotation of the sock (1) is discontinued and the relative angular position is kept as reference position for following operations of finishing. The rotation of the sock can be carried out by means of axial integral rotation of the support (3) with the sock (1) with respect to a support base. Or, the rotation of the sock can be carried out by means of counter rotating movement of rollers (6, 6') tangential to the support (3). The support (3) can be part of a production cycle wherein the sock follows a path that comprises various work stations (10, 20, 30, 40).

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