Title (en)

IMPROVED LOOPING MACHINE AND RELATED METHOD

Title (de)

VERBESSERTE KETTELMASCHINE UND ZUGEHÖRIGES VERFAHREN

Title (fr)

MACHINE DE BOUCLAGE AMÉLIORÉE ET PROCÉDÉ ASSOCIÉ

Publication

EP 3599305 A1 20200129 (EN)

Application

EP 19164181 A 20190320

Priority

IT 201800007417 A 20180723

Abstract (en)

A looping machine (4) comprising a feed device (16) of the fabric (12) along a longitudinal direction (Y-Y), a positioning device (20) of a needle (10) along a transverse direction (X-X), an operating device (24) of said needle (10) along a vertical direction (Z-Z), perpendicular to said longitudinal (Y-Y) and transverse (X-X) directions, to perform the looping, characterized in that it comprises a camera (103) suitable for identifying a guide thread (40) arranged at at least one fabric (12) to be stitched, said guide thread (40) being inserted inside the fabric (12) so as to identify a plurality of segments (blob) (44). The machine (4) comprises a processing and control unit (56), operatively connected to the camera (103) and to actuators of the feed device (16) of the fabric (12), of the positioning device (20) of the needle (10) and of the actuation device (24) of the needle (10), so as to determine in real time the target stitching position of the needle (10) as a function of the guide thread (40) and to control in real time said devices (16, 20, 24) for reaching said target stitching position of the needle (10).

IPC 8 full level

D05B 7/00 (2006.01)

CPC (source: CN EP)

D05B 7/00 (2013.01 - CN EP); **D05B 19/08** (2013.01 - CN); **D05B 79/00** (2013.01 - CN)

Citation (search report)

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- [A] US 2002129626 A1 20020919 - KAWAMURA SADAO [JP], et al
- [A] EP 0930389 A2 19990721 - DAN CO LTD [JP]
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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

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