

Title (en)
IMPROVED LINKING MACHINE AND RELATED METHOD

Title (de)
VERBESSERTE KETTEL MASCHINE UND ZUGEHÖRIGES VERFAHREN

Title (fr)
MACHINE DE LIAISON AMELIOREE ET PROCEDE ASSOCIE

Publication
EP 3599305 B1 20210602 (EN)

Application
EP 19164181 A 20190320

Priority
IT 201800007417 A 20180723

Abstract (en)
[origin: EP3599305A1] 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 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)

Cited by
CN115305656A; US11932978B2

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)
EP 3599305 A1 20200129; EP 3599305 B1 20210602; CN 110747586 A 20200204; CN 110747586 B 20230711; ES 2886878 T3 20211221; IT 201800007417 A1 20200123; JP 2020014831 A 20200130; MA 50419 A 20210324; MA 50419 B1 20210831; MD 3599305 T2 20211130; MX 2019003629 A 20200124; NI 201900028 A 20200402; PT 3599305 T 20210811

DOCDB simple family (application)
EP 19164181 A 20190320; CN 201910251849 A 20190329; ES 19164181 T 20190320; IT 201800007417 A 20180723; JP 2019059793 A 20190327; MA 50419 A 20190320; MD E20200874 T 20190320; MX 2019003629 A 20190328; NI 201900028 A 20190328; PT 19164181 T 20190320