

Title (en)
ELECTRONIC YARN CHANGING DEVICE FOR CIRCULAR KNITTING MACHINE

Title (de)
ELEKTRONISCHE GARNWECHSELVORRICHTUNG FÜR EINE RUNDSTRICKMASCHINE

Title (fr)
DISPOSITIF ÉLECTRONIQUE DE CHANGEMENT DE FIL POUR MACHINE À TRICOTER CIRCULAIRE

Publication
EP 3495539 A1 20190612 (EN)

Application
EP 17206372 A 20171211

Priority
EP 17206372 A 20171211

Abstract (en)
An electronic yarn changing device (10) for a circular knitting machine includes at least two driving units (11), at least two impelling plates (12) respectively connected to the driving units (11), and at least two yarn feeding units (13). The impelling plates (12) are impelled by the respective connected driving units (11) to perform a one-dimensional motion. The yarn feeding units (13) are arranged side by side, and are each provided sequentially with a yarn feeding plate (14), a yarn clamping plate (15), a mobile blade plate (16) and a fixed blade plate (17). The yarn clamping plate (15) includes a plurality of guide columns (151) disposed correspondingly to the yarn feeding plate (14). The yarn feeding plates (14) are respectively pushed by the corresponding impelling plates (12) to perform a two-dimensional motion due to the plurality of guide columns (151). The mobile blade plates (16) are also respectively pushed when the corresponding impelling plates (12) perform the one-dimensional motion, and individually perform a one-dimensional motion once being pushed.

IPC 8 full level
D04B 15/60 (2006.01)

CPC (source: EP)
D04B 15/60 (2013.01)

Citation (applicant)

- US 4137732 A 19790206 - GOSTELOW DANIEL W F, et al
- US 4193274 A 19800318 - GOSTELOW DANIEL W F [GB]
- US 4385507 A 19830531 - SAWAZAKI MASATOSHI [JP]
- US 7607324 B2 20091027 - LONATI TIBERIO [IT]
- US 7836731 B2 20101123 - LONATI ETTORE [IT], et al
- US 7861559 B2 20110104 - LONATI ETTORE [IT], et al
- US 9683321 B2 20170620 - LONATI TIBERIO [IT], et al
- JP 2005042260 A 20050217 - PRECISION FUKUHARA WORKS LTD
- US 7861559 B2 20110104 - LONATI ETTORE [IT], et al
- US 9441317 B1 20160913 - LEE PENG CHENG [TW]

Citation (search report)

- [AD] US 7861559 B2 20110104 - LONATI ETTORE [IT], et al
- [A] EP 1524347 A2 20050420 - MBI TECHNOLOGY CO LTD [KR]
- [A] CN 102758309 A 20121031 - SANTONI & C SPA

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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