

Title (en)
FLAT KNITTING MACHINE

Title (de)
FLACHSTRICKMASCHINE

Title (fr)
MACHINE À TRICOTER RECTILIGNE

Publication
EP 2336411 A4 20140101 (EN)

Application
EP 09808087 A 20090821

Priority
• JP 2009004012 W 20090821
• JP 2008214648 A 20080822

Abstract (en)
[origin: EP2336411A1] To provide a flatbed knitting machine that can maintain the accuracy for the feed lengths of knitting yarn even when remedial process is performed while the yarn is being fed in a necessary yarn feeding mode. In a flatbed knitting machine 31, the rotational angle of a master roller 10 of a yarn feeding device 6 is detected by an encoder 32. As the tilt angle of a buffer arm 7 approaches the lower limit or the upper limit in the midst of the necessary yarn feeding mode, the mode is switched to a fixed arm angle mode as remedial process. A knitting controller 33 performs stitch adjustment even during remedial process. The length of knitting yarn 4 fed from between the master roller 10 and a slave roller 11 to the buffer arm 7 is calculated on the basis of the difference in the rotational angles detected by the encoder 32. As shown in (b), the timing of measurement by the encoder 32 at which the knitting controller 33 performs stitch adjustment in the fixed arm angle mode corresponds to the inside of the knitting width.

IPC 8 full level
D04B 15/48 (2006.01); **D04B 15/44** (2006.01)

CPC (source: EP)
D04B 15/44 (2013.01); **D04B 15/488** (2013.01)

Citation (search report)
• [A] EP 1548163 A1 20050629 - SHIMA SEIKI MFG [JP]
• See references of WO 2010021151A1

Cited by
IT201800005463A1

Designated contracting state (EPC)
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 SE SI SK SM TR

DOCDB simple family (publication)
EP 2336411 A1 20110622; **EP 2336411 A4 20140101**; **EP 2336411 B1 20150325**; CN 102131971 A 20110720; CN 102131971 B 20121121; JP 5963393 B2 20160803; JP WO2010021151 A1 20120126; WO 2010021151 A1 20100225

DOCDB simple family (application)
EP 09808087 A 20090821; CN 200980132619 A 20090821; JP 2009004012 W 20090821; JP 2010525610 A 20090821