

Title (en)

Flat knitting machine and electric power saving control method of flat knitting machine

Title (de)

Flachstrickmaschine und stromsparendes Steuerungsverfahren einer Flachstrickmaschine

Title (fr)

Tricoteuse rectiligne et procédé de contrôle d'économie d'énergie d'une tricoteuse rectiligne

Publication

EP 2392711 B1 20140611 (EN)

Application

EP 11004641 A 20110607

Priority

JP 2010130012 A 20100607

Abstract (en)

[origin: EP2392711A1] A flat knitting machine (2), having a pair of front and rear needle beds (4, 6) one of which is caused to rack freely with respect to the other needle bed (4, 6) by a servomotor (14), is provided with a brake (16) for inhibiting a racking motion of the needle bed (4, 6). Slide force that is applied from a knitted fabric or carriage (10) to the needle bed (4, 6) is obtained based on knitting data of the knitted fabric. When the obtained slide force is equal to or lower than a first predetermined value and the needle bed (4, 6) is not caused to rack by the servomotor (14), excitation of the servomotor (14) is canceled and the brake (16) is turned on.

IPC 8 full level

D04B 15/96 (2006.01)

CPC (source: EP)

D04B 15/96 (2013.01)

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

DOCDB simple family (publication)

EP 2392711 A1 20111207; EP 2392711 B1 20140611; CN 102268779 A 20111207; CN 102268779 B 20140924; JP 2011256468 A 20111222; JP 5618640 B2 20141105

DOCDB simple family (application)

EP 11004641 A 20110607; CN 201110159212 A 20110607; JP 2010130012 A 20100607