

Title (en)

Yarn guide apparatus in circular knitting machine

Title (de)

Garnführungsvorrichtung in einer Rundstrickmaschine

Title (fr)

Dispositif de coupure de circuit d'alimentation électrique et procédé de commande d'alimentation

Publication

EP 2540890 A3 20150114 (EN)

Application

EP 12171242 A 20120608

Priority

JP 2011127808 A 20110608

Abstract (en)

[origin: EP2540890A2] The present invention prevents a yarn carrier from coming off a proper yarn feed position due to a large tensile force of a knitting yarn while a knitting machine operates. In a yarn guide apparatus in a circular knitting machine, a guide hole of a yarn guide is disposed facing a yarn feed port of a yarn carrier such that a distance from the guide hole to a shaft portion is substantially the same as a distance from the yarn feed port to the shaft portion, thereby providing at the yarn feed port an acting force equal to or greater than a force that acts so as to tilt the yarn carrier upward due to a knitting yarn. It is preferable that the yarn guide that surrounds a yarn carrier ring is attached together with a yarn carrier to a center portion of the shaft portion.

IPC 8 full level

D04B 15/58 (2006.01)

CPC (source: EP)

D04B 1/123 (2013.01); **D04B 15/58** (2013.01)

Citation (search report)

- [XA] US 6182475 B1 20010206 - LEE KYUNG-MOK [KR]
- [XDA] JP H02118784 U 19900925
- [A] US 6655176 B1 20031202 - WANG PING-SHIH [TW]

Cited by

CN104109933A

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 2540890 A2 20130102; EP 2540890 A3 20150114; EP 2540890 B1 20160323; CN 102817171 A 20121212; CN 102817171 B 20160907; JP 2012255225 A 20121227; TW 201303102 A 20130116; TW I604098 B 20171101

DOCDB simple family (application)

EP 12171242 A 20120608; CN 201210185117 A 20120606; JP 2011127808 A 20110608; TW 101120396 A 20120607