

Title (en)

Warp yarn positive feeding device for knitting machine and knitting machine

Title (de)

Positive Kettfadenzuführungsvorrichtung für Strickmaschine und Strickmaschine

Title (fr)

Dispositif d'alimentation positive de files de chaîne pour machine à tricoter et machine à tricoter

Publication

EP 2843093 A1 20150304 (EN)

Application

EP 14181601 A 20140820

Priority

JP 2013178438 A 20130829

Abstract (en)

Configuration: A warp yarn positive feeding device (4) for a knitting machine (2) includes warp yarn pipes (40) through which warp yarns (26) pass and are fed to a trick gap of the knitting machine (2), driving rollers (22) that draw warp yarns (26) of a required length from warp yarn sources (25) and positively feeds the drawn warp yarns (26), and air pipes through which an air flow is blown into the warp yarn pipes (40) from an entrance side of the warp yarn pipes (40) so as to advance, within the warp yarn pipes (40), the warp yarns (26) to an exit side of the warp yarn pipes (40). Effects: The warp yarns (26) of a required length are inserted into a knit structure.

IPC 8 full level

D04B 15/48 (2006.01); **D04B 15/56** (2006.01)

CPC (source: CN EP KR)

D04B 1/10 (2013.01 - KR); **D04B 1/22** (2013.01 - EP); **D04B 7/00** (2013.01 - KR); **D04B 7/14** (2013.01 - EP); **D04B 15/38** (2013.01 - CN); **D04B 15/48** (2013.01 - EP KR); **D04B 15/56** (2013.01 - EP); **D10B 2403/02411** (2013.01 - EP); **D10B 2403/02412** (2013.01 - EP)

Citation (applicant)

- JP 2013040411 A 20130228 - SHIMA SEIKI MFG
- US 2005123715 A1 20050609 - FRANZKE GERD [DE], et al
- WO 9721860 A1 19970619 - UNIV DRESDEN TECH [DE], et al
- JP 3603031 B2 20041215

Citation (search report)

- [X] GB 1212978 A 19701118 - ICI LTD [GB]
- [A] US 5285821 A 19940215 - FREDRIKSSON LARS-BERNO [SE]
- [AD] EP 2568067 A2 20130313 - SHIMA SEIKI MFG [JP]
- [A] EP 0051670 A1 19820519 - VINAS JUAN
- [A] US 5388747 A 19950214 - CHEN JEN-HUI [TW]

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 2843093 A1 20150304; **EP 2843093 B1 20180110**; CN 104420068 A 20150318; CN 104420068 B 20161109; JP 2015048536 A 20150316; JP 6177054 B2 20170809; KR 101604226 B1 20160317; KR 20150026898 A 20150311

DOCDB simple family (application)

EP 14181601 A 20140820; CN 201410436447 A 20140829; JP 2013178438 A 20130829; KR 20140112082 A 20140827