Title (en)

YARN FEEDING MECHANISM OF FLAT KNITTING MACHINE

Title (de)

FADENZUFÜHRMECHANISMUS EINER FLACHSTRICKMASCHINE

Title (fr)

MÉCANISME D'ALIMENTATION EN FIL DE MACHINE À TRICOTER RECTILIGNE

Publication

EP 3118360 B1 20190306 (EN)

Application

EP 16179468 A 20160714

Priority

JP 2015141857 A 20150716

Abstract (en)

[origin: EP3118360A1] Upstream-side and downstream-side V-groove guide rollers (24, 25) having substantially V-shaped grooves (241, 251) are rotatably supported in a feeding path in which yarns are formed into a folded yarn by a yarn combining device and is supplied to a yarn carrier. Shafts (242, 252) of the V-groove guide rollers (24, 25) are inclined relative to a direction perpendicular to the feeding path so that the folded yarn is twisted while being rolled from one inclined surfaces (243A, 253A) of the inclined surfaces (243A, 243B, 253A, 253B) of the grooves (241, 251) to valleys. Further, lines (X, Y) tracing the valleys of the grooves (241, 251) of the V-groove guide rollers (24, 25) in a circumferential direction forms one cycle of a sine curve for one turn of the V-groove guide rollers (24, 25) in an expanded state.

IPC 8 full level

D04B 15/38 (2006.01); **D04B 15/54** (2006.01)

CPC (source: CN EP KR)

D04B 7/00 (2013.01 - KR); **D04B 15/38** (2013.01 - EP); **D04B 15/48** (2013.01 - CN EP KR); **D04B 15/56** (2013.01 - CN KR); **D04B 35/22** (2013.01 - EP)

Citation (examination)

EP 0812793 A2 19971217 - MURASE TEIICHI [JP], et al

Cited by

CN109825941A

Designated contracting state (EPC)

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DOCDB simple family (publication)

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