

Title (en)
AUTOMATIC YARN THREADING DEVICE

Title (de)
AUTOMATISCHE FADENEINFÄDELUNGSVORRICHTUNG

Title (fr)
DISPOSITIF D'ENFILAGE DE FIL AUTOMATIQUE

Publication
EP 3162749 B1 20180509 (EN)

Application
EP 16195496 A 20161025

Priority
JP 2015213744 A 20151030

Abstract (en)
[origin: EP3162749A1] Yarns are automatically threaded onto yarn guides. A yarn threading unit 33 of an automatic yarn threading device includes a suction gun 42, a pressing roller 46, and a yarn separation guide 47. The suction gun 42 sucks and retains yarns having been spun out. The pressing roller 46 is pressed onto the yarns retained by the suction gun 42 so as to widen the intervals of the yarns. The yarn separation guide 47 is provided with grooves 47a lined up in one direction. After the grooves 47a of the yarn separation guide 47 are moved to a position opposing yarns with the intervals widened by the pressing roller 46, the yarns are inserted into the respective grooves 47a by retreating the pressing roller 46 to a position not making contact with the yarns. Thereafter, as the yarn separation guide 47 is moved toward the base end side in the first direction, the yarns are threaded onto fulcrum guides.

IPC 8 full level
B65H 57/00 (2006.01); **B65H 57/16** (2006.01); **B65H 67/048** (2006.01)

CPC (source: CN EP)
B65H 57/003 (2013.01 - EP); **B65H 57/16** (2013.01 - EP); **B65H 67/048** (2013.01 - EP); **D01D 10/0436** (2013.01 - CN); **D01D 11/02** (2013.01 - CN)

Cited by
CN111315673A; CN112659235A; EP4328161A3; EP3712097A1; EP4378868A1; WO2019081215A1; WO2021218255A1

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 3162749 A1 20170503; **EP 3162749 B1 20180509**; CN 106917149 A 20170704; CN 106917149 B 20210629; JP 2017082379 A 20170518; JP 6756573 B2 20200916; TW 201715104 A 20170501; TW I658180 B 20190501

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EP 16195496 A 20161025; CN 201610960634 A 20161028; JP 2016205306 A 20161019; TW 105134563 A 20161026