

Title (en)  
AUTOMATIC YARN THREADING DEVICE

Title (de)  
AUTOMATISCHE FADENEINFÄDELUNGSVORRICHTUNG

Title (fr)  
DISPOSITIF D'ENFILAGE DE FIL AUTOMATIQUE

Publication  
**EP 3162749 A1 20170503 (EN)**

Application  
**EP 16195496 A 20161025**

Priority  
JP 2015213744 A 20151030

Abstract (en)  
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)

Citation (applicant)  
• JP 2015078455 A 20150423 - TMT MACHINERY INC  
• JP 2014005555 A 20140116 - TMT MACHINERY INC

Citation (search report)  
• [A] EP 2407407 A2 20120118 - TMT MACHINERY INC [JP]  
• [A] DE 102015202016 A1 20150806 - TMT MACHINERY INC [JP]  
• [A] EP 2567919 A1 20130313 - TMT MACHINERY INC [JP]

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

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 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

DOCDB simple family (application)  
**EP 16195496 A 20161025**; CN 201610960634 A 20161028; JP 2016205306 A 20161019; TW 105134563 A 20161026