

Title (en)
YARN THREADING ROBOT

Title (de)
FADENEINFÄDELUNGSROBOTER

Title (fr)
ROBOT D'ENFILAGE DE FIL

Publication
EP 3663246 A1 20200610 (EN)

Application
EP 20152840 A 20171012

Priority
• JP 2016206091 A 20161020
• EP 17196158 A 20171012

Abstract (en)
There is provided a yarn threading robot capable of stably performing yarn threading. A yarn threading robot 3 is configured to perform yarn threading onto a spun yarn take-up apparatus 2 while sucking and retaining a yarn Y by a sucking retaining unit 42. The spun yarn take-up apparatus 2 is configured to wind the spun-out yarn Y onto a bobbin B while traversing the yarn Y, to form a package. The yarn threading robot 3 includes a controller configured to control the suction force of the sucking retaining unit 42.

IPC 8 full level
B65H 57/00 (2006.01); **B65H 54/88** (2006.01); **B65H 67/048** (2006.01); **D01D 7/00** (2006.01)

CPC (source: CN EP)
B65H 54/88 (2013.01 - EP); **B65H 57/003** (2013.01 - EP); **B65H 67/048** (2013.01 - EP); **D01D 5/34** (2013.01 - EP); **D01D 7/00** (2013.01 - CN EP); **D01F 8/14** (2013.01 - EP); **B65H 27/01/3132** (2013.01 - EP)

Citation (applicant)
• JP S53106815 A 19780918 - TEIJIN LTD
• DE 3941302 A1 19900628 - BARMAG BARMER MASCHF [DE]

Citation (search report)
• [AD] JP S53106815 A 19780918 - TEIJIN LTD
• [AD] DE 3941302 A1 19900628 - BARMAG BARMER MASCHF [DE]
• [A] JP S63127987 A 19880531 - TORAY INDUSTRIES
• [A] EP 0273292 A2 19880706 - TORAY INDUSTRIES [JP]
• [A] JP H10194598 A 19980728 - TORAY ENG CO LTD
• [A] US 3750922 A 19730807 - BETHEA T, et al

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 3312121 A1 20180425; CN 107964691 A 20180427; CN 107964691 B 20220211; CN 113753680 A 20211207; CN 113753680 B 20230801; CN 113753681 A 20211207; CN 113753681 B 20230314; CN 113862804 A 20211231; CN 113862804 B 20230526; EP 3659953 A1 20200603; EP 3659953 B1 20210630; EP 3663246 A1 20200610; EP 3838824 A1 20210623; EP 3838824 B1 20230927; JP 2018066088 A 20180426; JP 6829044 B2 20210210; TW 201815651 A 20180501; TW I694964 B 20200601

DOCDB simple family (application)
EP 17196158 A 20171012; CN 201710790470 A 20170905; CN 202111159028 A 20170905; CN 202111160658 A 20170905; CN 202111160660 A 20170905; EP 20152839 A 20171012; EP 20152840 A 20171012; EP 21155450 A 20171012; JP 2016206091 A 20161020; TW 106134497 A 20171006