

Title (en)
YARN HANDLING DEVICE

Title (de)
FADENHANDHABUNGSVORRICHTUNG

Title (fr)
DISPOSITIF DE MANIPULATION DE FIL

Publication
EP 3835468 A1 20210616 (EN)

Application
EP 20209491 A 20201124

Priority
JP 2019222239 A 20191209

Abstract (en)
An object of the present invention is to provide a yarn handling device which is small in size and the state of which is switchable between a state in which a yarn is sucked and captured and a state in which the yarn is pinched and captured. A yarn handling device 7 includes a fluid supply passage 85 to which compressed air is supplied, a first capturing mechanism 81 which is able to suck and capture a yarn Y by means of the negative pressure generated when the compressed air is supplied to the fluid supply passage 85, and a second capturing mechanism 82 which is able to pinch and capture the yarn Y. The second capturing mechanism 82 is in a capturing state in which the yarn Y can be pinched and captured when the compressed air is not supplied to the fluid supply passage 85, whereas the second capturing mechanism 82 is switched from the capturing state into an unlocked state in which the yarn Y is not pinched when the compressed air is supplied to the fluid supply passage 85.

IPC 8 full level
D01H 13/04 (2006.01); **B65H 51/16** (2006.01); **B65H 57/16** (2006.01)

CPC (source: CN EP)
B65H 51/18 (2013.01 - EP); **B65H 54/88** (2013.01 - EP); **B65H 69/061** (2013.01 - EP); **D01H 13/04** (2013.01 - EP); **D01H 15/00** (2013.01 - CN); **B65H 2701/31** (2013.01 - EP)

Citation (applicant)
JP 2002242034 A 20020828 - MURATA MACHINERY LTD

Citation (search report)
• [A] JP S60128165 A 19850709 - TORAY INDUSTRIES
• [A] JP S60107063 U 19850720
• [A] JP S53143746 A 19781214 - NEUMUENSTER MASCH APP
• [AD] JP 2002242034 A 20020828 - MURATA MACHINERY LTD

Cited by
EP4345041A1

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 3835468 A1 20210616; **EP 3835468 B1 20220209**; CN 113026162 A 20210625; CN 113026162 B 20240618; JP 2021091987 A 20210617; JP 7489188 B2 20240523; TW 202122652 A 20210616; TW I829982 B 20240121

DOCDB simple family (application)
EP 20209491 A 20201124; CN 202011392301 A 20201202; JP 2019222239 A 20191209; TW 109142183 A 20201201