

Title (en)  
YARN WINDING MACHINE

Title (de)  
GARNWICKLUNGSMASCHINE

Title (fr)  
MACHINE DE RENVIDEUR DE FIL

Publication  
**EP 3141508 A1 20170315 (EN)**

Application  
**EP 16187506 A 20160906**

Priority  
JP 2015176529 A 20150908

Abstract (en)  
In a spinning frame (1), opening / closing members (a first opening / closing member (65) and a second opening / closing member (66)) are arranged in a flow path in which a suction current (82, 83) generated by at least one of a section blower (32) and a main blower acts in each of section ducts (31). Supporting members openably / closably support the opening / closing members (65, 66) to change an open / closed state of the flow path according to difference between a pressure at an upstream side and a pressure at a downstream side of the opening / closing members.

IPC 8 full level  
**B65H 54/70** (2006.01); **D01H 11/00** (2006.01)

CPC (source: CN EP)  
**B65H 54/702** (2013.01 - EP); **B65H 54/88** (2013.01 - CN); **D01H 11/005** (2013.01 - EP); **B65H 2701/31** (2013.01 - CN EP)

Citation (applicant)

- JP 2012132112 A 20120712 - MURATA MACHINERY LTD
- JP S6126381 A 19860205 - HITACHI LTD, et al

Citation (search report)

- [Y] EP 2657381 A1 20131030 - MURATA MACHINERY LTD [JP] & JP 2012132112 A 20120712 - MURATA MACHINERY LTD
- [Y] EP 2322458 A1 20110518 - SAVIO MACCHINE TESSILI SPA [IT]
- [XDA] JP S6126381 A 19860205 - HITACHI LTD, et al
- [A] EP 1488841 A1 20041222 - RIETER CZ AS [CZ]
- [A] US 3762143 A 19731002 - STEWART R
- [A] EP 2543757 A2 20130109 - MURATA MACHINERY LTD [JP]
- [A] EP 2626453 A1 20130814 - MURATA MACHINERY LTD [JP]
- [A] US 4353721 A 19821012 - MOLLSTAETTER WALTER

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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 3141508 A1 20170315; EP 3141508 B1 20190821**; CN 106494942 A 20170315; CN 106494942 B 20190702; JP 2017053052 A 20170316

DOCDB simple family (application)  
**EP 16187506 A 20160906**; CN 201610750771 A 20160829; JP 2015176529 A 20150908