

Title (en)  
Spinning machine

Title (de)  
Spinnmaschine

Title (fr)  
Fileuse

Publication  
**EP 2302114 A2 20110330 (EN)**

Application  
**EP 10175754 A 20100908**

Priority  
• JP 2009217023 A 20090918  
• JP 2010148330 A 20100629

Abstract (en)  
A spinning machine includes a plurality of spinning units, each spinning unit having a pneumatic spinning device which twists a fiber bundle F by air. Each spinning unit includes a compressed air feeding device, a first air pipe, and a cleanser supplying device. The compressed air feeding device feeds compressed air. The first air pipe guides the air fed by the compressed air feeding device. The cleanser supplying device adds cleanser to the air flowing through the first pipe. The cleanser supplying device adds the cleanser at upstream of a branch point where the air flowing through the first air pipe branches off to each of the pneumatic spinning devices.

IPC 8 full level  
**D01H 1/115** (2006.01); **D01H 4/02** (2006.01)

CPC (source: CN EP)  
**D01H 1/115** (2013.01 - EP); **D01H 4/02** (2013.01 - CN); **D01H 13/00** (2013.01 - CN); **D01H 13/306** (2013.01 - CN); **D01H 13/32** (2013.01 - CN)

Citation (applicant)  
• JP 2009001935 A 20090108 - MURATA MACHINERY LTD  
• JP 2008095208 A 20080424 - MURATA MACHINERY LTD

Cited by  
JP2014095166A; EP2767625A1; CN103060962A; EP2450478A3; CH707561A1; CH709749A1; CN103014938A; JP2013167045A; EP2573256A3; CH709748A1; EP2949795A3; CN104975381A; EP3388563A1; CN108691046A; US9670601B2; US9663878B2

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 SE SI SK SM TR

Designated extension state (EPC)  
BA ME RS

DOCDB simple family (publication)  
**EP 2302114 A2 20110330; EP 2302114 A3 20140226; EP 2302114 B1 20160420**; CN 102021688 A 20110420; CN 102021688 B 20161005; CN 104328539 A 20150204; CN 105463635 A 20160406; CN 105463635 B 20180413; CN 105568445 A 20160511; CN 105568445 B 20180501; EP 2865793 A1 20150429; JP 2011084854 A 20110428

DOCDB simple family (application)  
**EP 10175754 A 20100908**; CN 201010281843 A 20100914; CN 201410664073 A 20100914; CN 201610037321 A 20100914; CN 201610037377 A 20100914; EP 14195120 A 20100908; JP 2010148330 A 20100629