

Title (en)  
SPINNING MACHINE

Title (de)  
SPINNGERÄT

Title (fr)  
MACHINE DE FILATURE

Publication  
**EP 2366817 B2 20180110 (EN)**

Application  
**EP 09828783 A 20091104**

Priority  
• JP 2009005844 W 20091104  
• JP 2008303398 A 20081128

Abstract (en)  
[origin: EP2366817A1] Production of a package is improved by revising the arrangement of units constituting the spinning machine so that the units can be handled and maintained conveniently. A spinning machine (4) includes a draft process unit (12) for drawing a sliver (S), a pneumatic spinning unit (13) for twisting the sliver (S) and delivering a spun yarn (Y), and a winding unit (17) for winding the spun yarn (Y) and forming a package (P). A yarn path in a unit configuration section (8) where the units are disposed includes a first yarn path (R1) which is horizontal or inclined gently, and a second yarn path which continues from the first yarn path (R1) and is guided by a yarn-accumulating device (15) to a different direction from that of the first yarn path. The units are arranged along the first yarn path (R1) and second yarn path (R2).

IPC 8 full level  
**D01H 5/00** (2006.01); **D01H 1/115** (2006.01); **D01H 4/02** (2006.01); **D01H 4/48** (2006.01); **D01H 13/00** (2006.01)

CPC (source: EP)  
**B65H 51/22** (2013.01); **D01H 1/115** (2013.01); **D01H 4/02** (2013.01); **D01H 4/48** (2013.01); **B65H 2701/31** (2013.01)

Citation (opposition)  
Opponent :  
• EP 2169036 A1 20100331 - KYODO YUSHI [JP], et al  
• EP 1460015 A1 20040922 - MURATA MACHINERY LTD [JP]  
• JP 2728007 B2 19980318  
• EP 1407995 A2 20040414 - MURATA MACHINERY LTD [JP]  
• JP 2006207083 A 20060810 - MURATA MACHINERY LTD  
• DE 3631400 A1 19880317 - STAHLER FRITZ [DE], et al  
• EP 1416772 A1 20040506 - SSM AG [CH]  
• Internationales Textil-Bulletin, Weltausgabe, Spinnerei 4/80, p. 365-395  
• Internationales Textil-Bulletin, Weltausgabe, Spinnerei 1/80, p. 1-4, 69-70  
• Saurer-Alma, Effektwimmaschinen ESP1, ESP2, p. 1-7

Cited by  
EP2749517A1; EP3103750A1

Designated contracting state (EPC)  
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

DOCDB simple family (publication)  
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CN 102216505 B 20131106; JP 2012031523 A 20120216; WO 2010061533 A1 20100603

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**EP 09828783 A 20091104**; CN 200980146258 A 20091104; JP 2008303398 A 20081128; JP 2009005844 W 20091104