

Title (en)  
Spinning unit, spinning machine and yarn processing method

Title (de)  
Spinnereinheit, Spinnmaschine und Garnverarbeitungsverfahren

Title (fr)  
Unité de filage, métier à filer et procédé de traitement de fil

Publication  
**EP 2573217 A2 20130327 (EN)**

Application  
**EP 12181500 A 20120823**

Priority  
JP 2011206486 A 20110921

Abstract (en)  
A spinning machine includes an air-jet spinning device (9) adapted to produce a spun yarn (10) by twisting a fiber bundle (8), a yarn accumulating roller (21) provided downstream of the air-jet spinning device (9) and adapted to temporarily accumulate the spun yarn (10) by rotating and winding the spun yarn (10) around an outer peripheral surface (21a) thereof, a yarn hooking member (22) provided downstream of the yarn accumulating roller (21) and adapted to wind the spun yarn (10) around the outer peripheral surface (21a) of the yarn accumulating roller (21) by integrally rotating with the yarn accumulating roller (21) while being in contact with the spun yarn (10), a yarn removing lever (28) that can remove the spun yarn (10) from the yarn hooking member (22), and a yarn removal detecting section that detects a removal of the spun yarn (10) from the yarn hooking member (22) by the yarn removing lever (28).

IPC 8 full level  
**D01H 1/115** (2006.01); **D01H 15/00** (2006.01)

CPC (source: EP)  
**B65H 51/22** (2013.01); **B65H 63/04** (2013.01); **D01H 15/00** (2013.01); **B65H 2701/31** (2013.01)

Citation (applicant)  
JP 2011038225 A 20110224 - MURATA MACHINERY LTD

Cited by  
CN113122976A; CN105819269A; US11377761B2; EP2910507A1; US11352720B2

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 2573217 A2 20130327**; **EP 2573217 A3 20170301**; **EP 2573217 B1 20191225**; CN 103014961 A 20130403; CN 103014961 B 20160608; JP 2013067891 A 20130418

DOCDB simple family (application)  
**EP 12181500 A 20120823**; CN 201210310701 A 20120828; JP 2011206486 A 20110921