

Title (en)

Driving state detecting device, winding unit, winding machine, spinning unit, and spinning machine

Title (de)

Vorrichtung zur Erkennung des Antriebsstatus, Wickeleinheit, Wickelmaschine, Spinnereinheit und Spinnmaschine

Title (fr)

Dispositif de détection d'état d'entraînement, unité d'enroulement, machine de bobinage, unité de filage et métier à filer

Publication

**EP 2690043 A3 20150506 (EN)**

Application

**EP 13177801 A 20130724**

Priority

- JP 2012167283 A 20120727
- JP 2013048113 A 20130311

Abstract (en)

[origin: EP2690043A2] A configuration is made which comprises a driving state calculation value calculating section 23 adapted to calculate a calculation value relating to a driving state of a cone-shaped package that rotates by abutting against an outer peripheral surface of a winding drum rotating around an axial line and into which a traversed yarn is wound, and a comparing and detecting section 24 adapted to compare or enable to be compared the calculation value calculated by the driving state calculation value calculating section 23 with a determination reference value.

IPC 8 full level

**B65H 54/10** (2006.01); **B65H 63/00** (2006.01); **B65H 63/04** (2006.01)

CPC (source: EP)

**B65H 54/103** (2013.01); **B65H 63/006** (2013.01); **B65H 63/04** (2013.01); **B65H 2701/31** (2013.01)

Citation (search report)

- [XAI] US 6302349 B1 20011016 - HERMANN'S FERDINAND [DE], et al
- [XI] EP 1795477 A1 20070613 - MURATA MACHINERY LTD [JP]
- [XI] US 6039282 A 20000321 - HERMANN'S FERDINAND-JOSEF [DE], et al
- [X] DE 102008019012 A1 20091022 - HERMANN'S FERDINAND JOSEF [DE], et al
- [X] EP 1506933 A1 20050216 - MURATA MACHINERY LTD [JP]
- [A] EP 2017212 A2 20090121 - MURATA MACHINERY LTD [JP]
- [A] US 4828191 A 19890509 - RUEGE JOACHIM [DE], et al
- [X] US 5826815 A 19981027 - HERMANN'S FERDINAND [DE], et al
- [A] DE 19548256 A1 19970626 - SCHLAFHORST & CO W [DE]
- [A] US 5074480 A 19911224 - AEPPLI KURT [CH]
- [X] US 5469696 A 19951128 - GERHARD HOEBER [DE]

Cited by

EP3689803A4

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 2690043 A2 20140129; EP 2690043 A3 20150506; EP 2690043 B1 20170405; CN 103569780 A 20140212; CN 103569780 B 20170721; JP 2014040325 A 20140306**

DOCDB simple family (application)

**EP 13177801 A 20130724; CN 201310284529 A 20130708; JP 2013048113 A 20130311**