

Title (en)

Yarn monitoring device and yarn winding machine including the same

Title (de)

Garnüberwachungsvorrichtung und Garnwickelmaschine damit

Title (fr)

Dispositif de supervision de bobinage de fil et machine de bobinage de fil l'incluant

Publication

EP 2657382 A3 20170823 (EN)

Application

EP 13158743 A 20130312

Priority

JP 2012103648 A 20120427

Abstract (en)

[origin: EP2657382A2] A yarn monitoring device (6) includes a holder (30), a detecting section, and a blowing section (45). The holder (30) is provided with a first yarn passage (34) for enabling passage of a spun yarn travelling along a predetermined yarn path. The detecting section is adapted to detect at least at a portion of a side wall surface (35) of the first yarn passage (34), status of the spun yarn. The blowing section (45) is adapted to blow compressed air in a predetermined blowing direction to the side wall surface (35) of the first yarn passage (34), and configured such that when viewed in a direction orthogonal to the yarn path and parallel to the side wall surface (35), the blowing direction is set diagonal to the side wall surface (35).

IPC 8 full level

D01H 13/14 (2006.01); **B65H 54/70** (2006.01); **B65H 63/06** (2006.01)

CPC (source: EP)

B65H 54/702 (2013.01); **B65H 63/065** (2013.01); **D01H 13/14** (2013.01); **B65H 2701/31** (2013.01)

Citation (search report)

- [A] JP 2001261233 A 20010926 - MURATA MACHINERY LTD
- [AD] JP 2005232650 A 20050902 - MURATA MACHINERY LTD
- [A] JP H10305967 A 19981117 - MURATA MACHINERY LTD
- [A] CH 535711 A 19730415 - LOEPFE AG GEB [CH]

Cited by

EP3018240A1

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 2657382 A2 20131030; **EP 2657382 A3 20170823**; **EP 2657382 B1 20180627**; CN 103373635 A 20131030; CN 103373635 B 20170808; JP 2013230908 A 20131114; JP 5953911 B2 20160720

DOCDB simple family (application)

EP 13158743 A 20130312; CN 201310148118 A 20130425; JP 2012103648 A 20120427