Title (en)

Yarn monitoring device and yarn winding machine

Title (de)

Garnüberwachungsvorrichtung und Garnwickelmaschine

Title (fr)

Dispositif de surveillance de fil et machine de bobinage de fil

Publication

EP 2687469 A2 20140122 (EN)

Application

EP 13173588 A 20130625

Priority

JP 2012160031 A 20120718

Abstract (en)

A yarn monitoring device (34) includes a yarn irregularity sensor (37) and a yarn monitoring controller (81). The yarn irregularity sensor (37) monitors a yarn (21) that is being wound by an automatic winder (1). The yarn monitoring controller (81) performs a determination based on information acquired from the yarn irregularity sensor (37) and information pertaining to, for example, a traverse position of the yarn (21) acquired from the yarn detection sensor (71) of the automatic winder (1), and outputs a cutter operation signal based on the determination to operate a cutter (39). Furthermore, the yarn monitoring device (34) includes a yarn detection receiving section (83) to receive a yarn detection signal output by the yarn detection sensor (71).

IPC 8 full level

B65H 54/28 (2006.01); **B65H 54/38** (2006.01); **B65H 54/71** (2006.01); **B65H 57/22** (2006.01); **B65H 59/40** (2006.01); **B65H 63/06** (2006.01)

CPC (source: EP)

B65H 54/2887 (2013.01); **B65H 54/388** (2013.01); **B65H 54/71** (2013.01); **B65H 57/22** (2013.01); **B65H 59/40** (2013.01); **B65H 63/062** (2013.01); B65H 2701/31 (2013.01)

Citation (applicant)

JP 2009190841 A 20090827 - MURATA MACHINERY LTD

Cited by

CN104816983A; EP3378816A1

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 2687469 A2 20140122; **EP 2687469 A3 20150422**; **EP 2687469 B1 20180110**; CN 103569794 A 20140212; CN 103569794 B 20180522; CN 108163626 A 20180615; CN 108163626 B 20191101; CN 108975070 A 20181211; CN 108975070 B 20201009; EP 2998257 A1 20160323; EP 2998257 B1 20170405; JP 2014019541 A 20140203

DOCDB simple family (application)

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