

Title (en)

Yarn defect classifying device and method and yarn winding machine

Title (de)

Vorrichtung und Verfahren zur Klassifizierung eines Garndefekts und Garnwickelmaschine

Title (fr)

Dispositif de détection de défaut de fil, procédé et machine de bobinage de fil

Publication

**EP 2644553 A2 20131002 (EN)**

Application

**EP 13155834 A 20130219**

Priority

- JP 2012074273 A 20120328
- JP 2012288114 A 20121228

Abstract (en)

A yarn defect classifying device for a yarn winding machine includes a yarn defect detecting device (5) adapted to detect a yarn defect, a removal determination section (53N, 53S, 53L) adapted to calculate a removal determination value for a set length of the yarn (Y) in accordance with a detected thickness of the yarn defect detected by the yarn defect detecting device (5), and to determine removal of the yarn defect when the removal determination value exceeds a prescribed value, and a calculating section (54N, 54S, 54L) adapted to calculate a display thickness and a display length of the yarn defect in accordance with the detected thickness and a detected length of the yarn defect.

IPC 8 full level

**B65H 63/06** (2006.01); **D01H 13/22** (2006.01); **G01N 21/89** (2006.01)

CPC (source: EP)

**B65H 63/062** (2013.01); **D01H 13/22** (2013.01); **B65H 2701/31** (2013.01)

Citation (applicant)

JP 2000327226 A 20001128 - MURATA MACHINERY LTD

Cited by

CN110155809A; CN114921941A; CZ307261B6; WO2017190259A1; WO2020188452A1

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 2644553 A2 20131002**; **EP 2644553 A3 20140507**; **EP 2644553 B1 20160413**; CN 103359547 A 20131023; CN 103359547 B 20170725; JP 2013227155 A 20131107

DOCDB simple family (application)

**EP 13155834 A 20130219**; CN 201310072107 A 20130307; JP 2012288114 A 20121228