

Title (en)

YARN WINDING DEVICE WITH CIRCUIT BOARD

Title (de)

GARNEWICKELVORRICHTUNG MIT LEITERPLATTE

Title (fr)

DISPOSITIF DE BOBINAGE DE FIL AVEC CARTE ELECTRONIQUE

Publication

EP 2436633 A2 20120404 (EN)

Application

EP 11178069 A 20110819

Priority

JP 2010223815 A 20101001

Abstract (en)

To accurately detect an abnormal vibration of a winding section. A circuit board (105) for a yarn winding unit (1) includes a circuit board body (105a) and a vibration detecting chip (109) provided on the circuit board body (105a).

IPC 8 full level

B65H 63/04 (2006.01)

CPC (source: EP)

B65H 63/04 (2013.01); **B65H 2701/31** (2013.01)

Citation (applicant)

- JP H0243876 U 19900327
- JP H06127833 A 19940510 - MURATA MACHINERY LTD
- JP 2009208880 A 20090917 - MURATA MACHINERY LTD

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 2436633 A2 20120404; **EP 2436633 A3 20120627**; **EP 2436633 B1 20160518**; CN 102442584 A 20120509; CN 102442584 B 20160810; CN 202369194 U 20120808; JP 2012076884 A 20120419

DOCDB simple family (application)

EP 11178069 A 20110819; CN 201110288785 A 20110926; CN 201120362624 U 20110926; JP 2010223815 A 20101001