

Title (en)
Yarn winding apparatus

Title (de)
Garnwickelvorrichtung

Title (fr)
Appareil d'enroulement de fil

Publication
EP 2664571 A2 20131120 (EN)

Application
EP 13162090 A 20130403

Priority
JP 2012114443 A 20120518

Abstract (en)
A winding unit (2) of an automatic winder (1) includes a yarn supplying section (11), a winding section (13) that winds a yarn Y supplied from the yarn supplying section (11) around a winding tube (17) into a package, a yarn clearer (22) that detects thickness of the yarn Y, and a unit controller (26). The unit controller (26) includes a yarn length calculating section (41) that calculates the length of the yarn Y wound around the winding tube (17) and a weight calculating section (42) that calculates a yarn weight of the package. The weight calculating section (42) calculates the yarn weight of the package based on the thickness of the yarn Y detected by the yarn clearer (22), the length of the yarn Y detected by the yarn length calculating section (41), and information on the specific gravity of the yarn Y.

IPC 8 full level
B65H 63/08 (2006.01)

CPC (source: EP)
B65H 63/08 (2013.01); **B65H 63/084** (2013.01); **B65H 2701/31** (2013.01)

Citation (applicant)
JP 2007100235 A 20070419 - MURATA MACHINERY LTD

Cited by
EP4001193A1; WO2019007729A1; WO2017187365A1

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 2664571 A2 20131120; **EP 2664571 A3 20140611**; **EP 2664571 B1 20150930**; CN 103420225 A 20131204; CN 103420225 B 20170503; JP 2013241232 A 20131205

DOCDB simple family (application)
EP 13162090 A 20130403; CN 201310090562 A 20130320; JP 2012114443 A 20120518