

Title (en)

WASTE YARN EMISSION AMOUNT OUTPUT DEVICE AND TEXTILE MACHINE

Title (de)

ABFALLGARNEMISSIONSMENGENAUSGBEVORRICHTUNG UND TEXTILMASCHINE

Title (fr)

DISPOSITIF DE SORTIE D'UNE QUANTITÉ D'ÉMISSION DE RESTE DE FIL ET MACHINE TEXTILE

Publication

EP 3705431 A1 20200909 (EN)

Application

EP 20160620 A 20200303

Priority

JP 2019041059 A 20190306

Abstract (en)

A waste yarn emission amount output device 150 includes a calculation section 95b and a display 92. The calculation section 95b calculates and outputs a waste yarn emission amount from each of devices in an automatic winder 1, these devices emitting waste yarns. The display 92 displays a waste yarn emission amount outputted by the calculation section 95b.

IPC 8 full level

B65H 54/86 (2006.01); **B65H 63/00** (2006.01)

CPC (source: CN EP)

B65H 54/26 (2013.01 - CN); **B65H 54/72** (2013.01 - CN); **B65H 54/86** (2013.01 - EP); **B65H 63/00** (2013.01 - EP); **B65H 63/062** (2013.01 - CN); **B65H 67/081** (2013.01 - CN); **B65H 69/061** (2013.01 - CN); **B65H 2701/31** (2013.01 - CN EP)

Citation (applicant)

- JP 2007211363 A 20070823 - MURATA MACHINERY LTD
- WO 2016074767 A1 20160519 - SAURER GERMANY GMBH & CO KG [DE]
- WO 2015029275 A1 20150305 - MURATA MACHINERY LTD [JP]

Citation (search report)

- [X] CN 106048758 B 20190111
- [A] EP 2455317 A1 20120523 - MURATA MACHINERY LTD [JP]
- [A] US 4842206 A 19890627 - KAWASAKI YOSIO [JP], et al
- [A] US 5794867 A 19980818 - HERMANN FERDINAND-JOSEF [DE], et al

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 3705431 A1 20200909; **EP 3705431 B1 20220504**; CN 111661706 A 20200915; CN 111661706 B 20230407; JP 2020143397 A 20200910

DOCDB simple family (application)

EP 20160620 A 20200303; CN 202010104729 A 20200220; JP 2019041059 A 20190306