

Title (en)
YARN WINDER

Title (de)
GARNWICKLER

Title (fr)
ENROULEUR DE FIL

Publication
EP 4339145 A3 20240327 (EN)

Application
EP 24153873 A 20190322

Priority
• JP 2018096810 A 20180521
• EP 19808388 A 20190322
• JP 2019012201 W 20190322

Abstract (en)
The present invention provides a yarn winder with: a cradle device 21 which has a cradle arm 31 that rotatably supports a bobbin B and which is capable of moving the cradle arm 31 in a predetermined direction crossing the axial direction of the bobbin B; a vibration suppression lever 41 that is pressed against the cradle arm 31 and thereby suppresses the vibration of the cradle arm 31; and a pressing mechanism 61 that pushes the vibration suppression lever 41 against the cradle arm 31. The pressing mechanism 61 is capable of changing the magnitude of the pressing force during the winding operation of a yarn Y and, during the winding operation, a control unit 13 changes the magnitude of the pressing force, sets the magnitude of the pressing force at a first pressing force when an arm driving unit 37 is not driven, and sets the magnitude of the pressing force at a second pressing force when the arm driving unit 37 is driven.

IPC 8 full level
B65H 54/52 (2006.01); **B65H 54/553** (2006.01); **B65H 54/70** (2006.01)

CPC (source: EP)
B65H 54/52 (2013.01); **B65H 54/553** (2013.01); **B65H 54/70** (2013.01); **B65H 2601/524** (2013.01); **B65H 2701/31** (2013.01)

Citation (search report)
• [A] US 2009026298 A1 20090129 - MEYER JURGEN [DE], et al
• [A] JP S6231666 A 19870210 - TEIJIN SEIKI CO LTD
• [A] DE 4231840 A1 19930325 - RIVA OFF MEC [IT]
• [A] US 5163631 A 19921117 - BORER SILVAN [CH]
• [A] EP 2179956 A2 20100428 - OERLIKON TEXTILE GMBH & CO KG [DE]
• [A] DE 102007041554 A1 20090305 - RIETER INGOLSTADT GMBH [DE]
• [A] US 6062505 A 20000516 - BARTKOWIAK KLAUS [DE]

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

DOCDB simple family (publication)
EP 3798166 A1 20210331; **EP 3798166 A4 20220223**; CN 112004766 A 20201127; CN 112004766 B 20221209; CN 115649975 A 20230131; EP 4339145 A2 20240320; EP 4339145 A3 20240327; JP 6967667 B2 20211117; JP WO2019225138 A1 20210513; TW 202003364 A 20200116; TW I790374 B 20230121; WO 2019225138 A1 20191128

DOCDB simple family (application)
EP 19808388 A 20190322; CN 201980027722 A 20190322; CN 202211432883 A 20190322; EP 24153873 A 20190322; JP 2019012201 W 20190322; JP 2020521059 A 20190322; TW 108113772 A 20190419