

Title (en)
YARN WINDER

Title (de)
GARNWICKLER

Title (fr)
BOBINOIR DE FIL

Publication
EP 3835244 A4 20220427 (EN)

Application
EP 19846140 A 20190521

Priority
• JP 2018149951 A 20180809
• JP 2019019993 W 20190521

Abstract (en)
[origin: EP3835244A1] The present invention suppresses changes that occur in a yarn path due to a driven movement of a direction change unit. In the present invention, a rewinder 1 is provided with a direction change guide 23 (the direction change unit in the present invention) which is disposed outside a yarn feed package Ps in a radial direction of the yarn feed package Ps, and guides yarn Y toward one side in a guide direction having an axial component. The direction change guide 23 is configured to be movable in a movement direction forming an angle of no greater than 45 degrees with the guide direction, and gravitational force is applied thereto from least the guide direction. Accordingly, the yarn Y traveling downstream in the yarn traveling direction of the direction change guide 23 can be prevented from being significantly shaken (the yarn path can be prevented from being changed) by the driven movement of the direction change guide 23. Thus, changes in the yarn path due to the driven movement of the direction change guide 23 can be suppressed.

IPC 8 full level
B65H 57/18 (2006.01); **B65H 49/18** (2006.01); **B65H 49/34** (2006.01); **B65H 57/28** (2006.01); **B65H 59/38** (2006.01)

CPC (source: EP)
B65H 49/34 (2013.01); **B65H 57/18** (2013.01); **B65H 57/28** (2013.01); **B65H 59/387** (2013.01); **B65H 2701/31** (2013.01)

Citation (search report)
[A] FR 2796056 A1 20010112 - FORT MAURICE ETS [FR]

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 3835244 A1 20210616; **EP 3835244 A4 20220427**; **EP 3835244 B1 20240731**; CN 112424100 A 20210226; CN 112424100 B 20220722; EP 4342831 A2 20240327; EP 4342831 A3 20240403; JP 7047101 B2 20220404; JP WO2020031457 A1 20210802; TW 202009204 A 20200301; TW I765167 B 20220521; WO 2020031457 A1 20200213

DOCDB simple family (application)
EP 19846140 A 20190521; CN 201980047156 A 20190521; EP 24155502 A 20190521; JP 2019019993 W 20190521; JP 2020536334 A 20190521; TW 108125199 A 20190717