

Title (en)

FALSE-TWISTING MACHINE AND FIBER WASTE COLLECTION DEVICE

Title (de)

FALSCHZWIRNMASCHINE UND FASERABFALLSAMMELVORRICHTUNG

Title (fr)

MACHINE DE FAUSSE TORSION ET DISPOSITIF DE COLLECTE DE DÉCHETS DE FIBRES

Publication

**EP 4345199 A1 20240403 (EN)**

Application

**EP 23199658 A 20230926**

Priority

JP 2022158253 A 20220930

Abstract (en)

[Problem to be Solved] Provided is a false-twisting machine and fiber waste collection device configured to separate fiber waste from air appropriately thereby capable of suppressing the discharge of the fiber waste to an exterior thereof.[Solution to Problem] In a false-twisting machine, a fiber waste collection device 1 configured to collect fiber waste includes: a fiber waste transfer pipe 11 through which the suctioned fiber waste is transferred; a fiber waste collection unit 13 for collecting therein the fiber waste transferred through the fiber waste transfer pipe 11; a cyclone separator 30 configured to separate the fiber waste from air transferred through the fiber waste transfer pipe 11 so as to collect the separated fiber waste in the fiber waste collection unit 13; and an air discharge unit connected to the cyclone separator 30 for discharging the air obtained after having been separated from the fiber waste, wherein the fiber waste transfer pipe 11 includes a plurality of fiber waste transfer pipes, and the cyclone separator 30 includes a plurality of cyclone separators each arranged to each of the plurality of fiber waste transfer pipes 11.

IPC 8 full level

**D01H 11/00** (2006.01); **B65H 54/70** (2006.01)

CPC (source: CN EP)

**B65H 54/702** (2013.01 - EP); **D01H 11/005** (2013.01 - CN EP); **D02G 1/0206** (2013.01 - EP); **D02G 1/0266** (2013.01 - CN); **B65H 2701/31** (2013.01 - EP)

Citation (applicant)

JP H0640661 B2 19940525

Citation (search report)

- [Y] WO 2005049464 A1 20050602 - SAURER GMBH & CO KG [DE], et al
- [XY] EP 2045378 A1 20090408 - MURATA MACHINERY LTD [JP]
- [Y] DE 202016105966 U1 20161110 - RIETER INGOLSTADT GMBH [DE]
- [XY] EP 2508659 A1 20121010 - SAVIO MACCHINE TESSILI SPA [IT]
- [XY] EP 3167950 A1 20170517 - SAVIO MACCH TESSILI SPA [IT]
- [A] EP 2653423 A1 20131023 - SAVIO MACCHINE TESSILI SPA [IT]
- [A] WO 03091140 A1 20031106 - BARMAG BARMER MASCHF [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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**EP 4345199 A1 20240403**; CN 117802644 A 20240402; JP 2024052577 A 20240411; TW 202415821 A 20240416

DOCDB simple family (application)

**EP 23199658 A 20230926**; CN 202311162186 A 20230911; JP 2023156220 A 20230921; TW 112135825 A 20230920