

Title (en)
VIBRATION MEASURING ASSEMBLY

Title (de)
SCHWINGUNGSMESSANORDNUNG

Title (fr)
ENSEMBLE DE MESURE DE VIBRATIONS

Publication
EP 4204159 A1 20230705 (DE)

Application
EP 21769688 A 20210825

Priority
• DE 102020122533 A 20200828
• EP 2021073464 W 20210825

Abstract (en)
[origin: WO2022043363A1] The invention relates to a device and a method for treating fibers. The device has a multipart housing in which at least one first treatment tool (1, 3) and a second treatment tool (2, 4) are arranged. The treatment tools (1, 2, 3, 4) have a rotationally symmetrical shape and are arranged coaxially to each other and can be rotated relative to each other about a common axis (5). Each of the two treatment tools (1, 2, 3, 4) delimit a treatment gap (11, 12), through which the fibrous material passes in a radial direction. Two housing parts (7, 8), each of which supports at least one treatment tool (1, 2, 3, 4), are coupled together via a joint (9) which can rotate about a joint axis (13). A contact between two treatment tools (1, 2, 3, 4) is reliably detected via at least one sensor (6) arranged on the housing, preferably a sensor (6) arranged on the exterior of the housing, in order to detect vibrations of the device.

IPC 8 full level
B02C 7/14 (2006.01); **D21B 1/14** (2006.01); **D21D 1/30** (2006.01)

CPC (source: EP US)
B02C 7/14 (2013.01 - EP); **D21B 1/14** (2013.01 - EP); **D21D 1/20** (2013.01 - US); **D21D 1/30** (2013.01 - EP); **G01M 1/22** (2013.01 - US)

Citation (search report)
See references of WO 2022043363A1

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
DE 102020122533 A1 20220303; CN 115989351 A 20230418; EP 4204159 A1 20230705; US 2023213405 A1 20230706;
WO 2022043363 A1 20220303

DOCDB simple family (application)
DE 102020122533 A 20200828; CN 202180052102 A 20210825; EP 2021073464 W 20210825; EP 21769688 A 20210825;
US 202318115403 A 20230228