

Title (en)

CONTACTLESS CLEANING DEVICE HAVING A SWIRLING FLOW

Title (de)

BERÜHRUNGSFREIE REINIGUNGSVORRICHTUNG MIT WIRBELSTROM

Title (fr)

DISPOSITIF DE NETTOYAGE SANS CONTACT À COURANT TOURBILLONNAIRE

Publication

EP 3880374 B1 20230104 (DE)

Application

EP 19798596 A 20191104

Priority

- DE 102018219696 A 20181116
- EP 2019080075 W 20191104

Abstract (en)

[origin: WO2020099163A1] The invention relates to a device (1) for contactlessly cleaning a workpiece and to a corresponding method. The device (1) comprises a first hollow body (2), the first hollow body (2) being suitable for at least partially receiving the workpiece to be cleaned, a second hollow body (3), the second hollow body (3) at least partly extending around the first hollow body (2), and a movable nozzle ring (4) between the first hollow body (2) and the second hollow body (3) for media flow between the first hollow body (2) and the second hollow body (3), the nozzle ring (4) being movable by means of a drive (6).

IPC 8 full level

B08B 5/02 (2006.01); **B08B 6/00** (2006.01)

CPC (source: EP KR RU US)

B08B 5/02 (2013.01 - EP KR RU); **B08B 5/023** (2013.01 - RU US); **B08B 5/04** (2013.01 - KR); **B08B 6/00** (2013.01 - EP KR US); **B08B 15/04** (2013.01 - KR RU US); **B08B 5/04** (2013.01 - EP); **B08B 15/04** (2013.01 - EP)

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)

DE 102018219696 A1 20200520; BR 112021008762 A2 20210810; CN 112996608 A 20210618; CN 112996608 B 20220513; EP 3880374 A1 20210922; EP 3880374 B1 20230104; ES 2941731 T3 20230525; JP 2022506952 A 20220117; JP 7137704 B2 20220914; KR 102400396 B1 20220520; KR 20210080573 A 20210630; MX 2021005753 A 20210811; RU 2765225 C1 20220126; US 2021308723 A1 20211007; WO 2020099163 A1 20200522

DOCDB simple family (application)

DE 102018219696 A 20181116; BR 112021008762 A 20191104; CN 201980074206 A 20191104; EP 19798596 A 20191104; EP 2019080075 W 20191104; ES 19798596 T 20191104; JP 2021525110 A 20191104; KR 20217018580 A 20191104; MX 2021005753 A 20191104; RU 2021114579 A 20191104; US 201917290421 A 20191104