

Title (en)
CLEANING DEVICE

Title (de)
REINIGUNGSVORRICHTUNG

Title (fr)
DISPOSITIF DE NETTOYAGE

Publication
EP 3488940 A1 20190529 (EN)

Application
EP 17830625 A 20170130

Priority
• JP 2016141512 A 20160719
• JP 2016141514 A 20160719
• JP 2017003113 W 20170130

Abstract (en)
A cleaning device includes a main body (10) having a rod shape, a vibration generator (21) which is provided in the main body (10) and generates vibration, a vibration transmission member (22) which is provided in the main body (10) with a part of the vibration transmission member (22) exposed from one end of the main body (10) and which transmits the vibration generated by the vibration generator (21) to an object to be cleaned, and a power supply unit (30) which is provided in the main body (10) and supplies electric power for generating vibration to the vibration generator (21). The main body (10) and the vibration transmission member (22) each have a polygonal shape in a cross-section in a direction intersecting with a direction in which the main body (10) extends, and one side of the polygonal shape of the main body (10) and one side of the polygonal shape of the vibration transmission member (22) are parallel to each other.

IPC 8 full level
B08B 3/12 (2006.01); **B06B 1/02** (2006.01); **B06B 1/06** (2006.01); **D06F 7/04** (2006.01); **D06F 35/00** (2006.01)

CPC (source: EP)
A47L 25/00 (2013.01); **B06B 1/02** (2013.01); **B06B 1/06** (2013.01); **B08B 7/02** (2013.01); **D06F 7/04** (2013.01); **D06F 29/00** (2013.01); **D06F 43/002** (2013.01)

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

DOCDB simple family (publication)
EP 3488940 A1 20190529; EP 3488940 A4 20200304; CN 109414734 A 20190301; JP 2021073087 A 20210513; JP 2021073088 A 20210513; JP 2021073089 A 20210513; JP 2022068333 A 20220509; JP 7216749 B2 20230201; JP 7273510 B2 20230515; JP 7273870 B2 20230515; JP 7273871 B2 20230515; JP WO2018016103 A1 20190509; TW 201803652 A 20180201; TW I652123 B 20190301; WO 2018016103 A1 20180125

DOCDB simple family (application)
EP 17830625 A 20170130; CN 201780014203 A 20170130; JP 2017003113 W 20170130; JP 2018528387 A 20170130; JP 2021009463 A 20210125; JP 2021009464 A 20210125; JP 2021009465 A 20210125; JP 2022026653 A 20220224; TW 106104224 A 20170209