

Title (en)
ELECTRIC DUST COLLECTOR

Title (de)
ELEKTRISCHER STAUBSAMMLER

Title (fr)
COLLECTEUR DE POUSSIÈRE ÉLECTRIQUE

Publication
EP 4082668 A4 20230726 (EN)

Application
EP 21858044 A 20210624

Priority
• JP 2020139592 A 20200820
• JP 2021024036 W 20210624

Abstract (en)
[origin: EP4082668A1] An electrostatic precipitator includes a charging portion including two charging electrodes opposite to each other, the charging portion being configured to charge a particulate matter in a gas passing between the two charging electrodes by applying a first voltage between the two charging electrodes to generate a corona discharge; and a collection portion including two collection electrodes opposite to each other, the collection portion being configured to collect by a Coulomb force the particulate matter charged by the charging portion by applying a second voltage between the two collection electrodes. One collection electrode of the two collection electrodes surrounds a hollow space, and an opening to open the hollow space is formed in a part of the one collection electrode facing the other collection electrode.

IPC 8 full level
B03C 3/40 (2006.01); **B03C 3/06** (2006.01); **B03C 3/08** (2006.01); **B03C 3/12** (2006.01); **B03C 3/41** (2006.01); **B03C 3/47** (2006.01); **B03C 3/51** (2006.01); **B03C 3/68** (2006.01); **F01N 3/01** (2006.01); **F01N 3/08** (2006.01); **F01N 13/00** (2010.01)

CPC (source: EP KR)
B03C 3/06 (2013.01 - EP); **B03C 3/08** (2013.01 - EP); **B03C 3/12** (2013.01 - EP); **B03C 3/41** (2013.01 - EP KR); **B03C 3/47** (2013.01 - EP); **B03C 3/51** (2013.01 - EP KR); **B03C 3/68** (2013.01 - EP KR); **F01N 3/01** (2013.01 - KR); **F01N 3/08** (2013.01 - EP); **F01N 13/004** (2013.01 - EP); **B03C 2201/10** (2013.01 - EP); **B03C 2201/24** (2013.01 - EP); **F01N 2590/02** (2013.01 - EP)

Citation (search report)
• [X] EP 2131017 A1 20091209 - TOYOTA MOTOR CO LTD [JP]
• [I] US 5466279 A 19951114 - HATTORI TAKAO [JP], et al
• [A] EP 2881177 A1 20150610 - FUJI ELECTRIC CO LTD [JP]
• [A] US 2016074877 A1 20160317 - AFANASIEV ANDREI [US], et al
• See references of WO 2022038894A1

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)
EP 4082668 A1 20221102; EP 4082668 A4 20230726; CN 115003416 A 20220902; JP 2022035345 A 20220304; KR 20220114086 A 20220817; WO 2022038894 A1 20220224

DOCDB simple family (application)
EP 21858044 A 20210624; CN 202180011441 A 20210624; JP 2020139592 A 20200820; JP 2021024036 W 20210624; KR 20227026075 A 20210624