

Title (en)
ELECTROSTATIC PRECIPITATOR

Title (de)
ELEKTROSTATISCHER ABSCHIEDER

Title (fr)
DÉPOUSSIÉREUR ÉLECTROSTATIQUE

Publication
EP 4082667 A4 20230830 (EN)

Application
EP 21858106 A 20210721

Priority
• JP 2020139593 A 20200820
• JP 2021027352 W 20210721

Abstract (en)
[origin: EP4082667A1] An electrostatic precipitator includes a plurality of precipitation portions, each including a charging electrode configured to charge a particulate matter contained in an exhaust gas of an engine by generating a corona discharge; and a collection electrode configured to collect by a Coulomb force the particulate matter charged by the corona discharge. The precipitation portions are arranged in series with respect to a flow of the exhaust gas.

IPC 8 full level
B03C 3/34 (2006.01); **B03C 3/40** (2006.01); **B03C 3/41** (2006.01); **F01N 3/01** (2006.01)

CPC (source: EP KR)
B03C 3/017 (2013.01 - EP); **B03C 3/025** (2013.01 - EP); **B03C 3/06** (2013.01 - EP); **B03C 3/08** (2013.01 - EP); **B03C 3/12** (2013.01 - EP); **B03C 3/41** (2013.01 - KR); **B03C 3/49** (2013.01 - EP); **F01N 3/01** (2013.01 - KR); **F01N 3/085** (2013.01 - EP); **F01N 3/0892** (2013.01 - EP); **F01N 13/004** (2013.01 - EP); **F01N 13/0093** (2014.06 - EP); **B03C 2201/10** (2013.01 - EP); **B03C 2201/30** (2013.01 - EP); **F01N 2240/02** (2013.01 - EP); **F01N 2240/04** (2013.01 - EP); **F01N 2590/02** (2013.01 - EP)

Citation (search report)
• [XY] EP 2085582 A1 20090805 - TOSHIBA KK [JP]
• [XY] EP 0770766 A1 19970502 - KABUSHIKI KAISYA O DEN [JP]
• [XY] US 2006137528 A1 20060629 - KATAYAMA HIDEO [JP]
• [XY] US 4218225 A 19800819 - BRANDT JOACHIM [DE], et al
• [Y] US 2013192540 A1 20130801 - SCHUELE VOLKER [DE], et al
• See references of WO 2022038957A1

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 4082667 A1 20221102; EP 4082667 A4 20230830; CN 115003900 A 20220902; JP 2022035346 A 20220304; JP 7494644 B2 20240604; KR 20220114654 A 20220817; WO 2022038957 A1 20220224

DOCDB simple family (application)
EP 21858106 A 20210721; CN 202180011239 A 20210721; JP 2020139593 A 20200820; JP 2021027352 W 20210721; KR 20227025854 A 20210721