

Title (en)
ELECTRONIC FINE DUST SEPARATOR

Title (de)
ELEKTROSTATISCHER FEINSTAUBABSCHIEDER

Title (fr)
SÉPARATEUR ÉLECTRONIQUE DE FINES POUSSIÈRES

Publication
EP 2744597 A1 20140625 (DE)

Application
EP 12780398 A 20120813

Priority

- DE 102011110805 A 20110815
- DE 202011104657 U 20110815
- DE 2012000839 W 20120813

Abstract (en)
[origin: WO2013023644A1] The invention relates to a method and to a device for the electrostatic separation of fine dust particles from gases that flow through a housing (1) containing perforated plates (6) and electrodes (4, 5). An electric field is created between the electrode (4) on the inflow opening side and the electrode or electrodes (5) having positive polarity on the outflow side. The removal of negatively charged fine dust particles (9) is carried out by deposition on the inflow side of the perforated plates (6), and the removal of positively charged fine dust particles (11) is carried out on the outflow side. Fine dust particles without charge (10) are charged after the last perforated plate (6) in an ionisation chamber (8) and deposit on the outflow side of the last perforated plate (6).

IPC 8 full level
B03C 3/09 (2006.01); **B03C 3/145** (2006.01); **B03C 3/36** (2006.01); **B03C 3/41** (2006.01); **B03C 3/47** (2006.01)

CPC (source: EP US)
B03C 3/09 (2013.01 - EP US); **B03C 3/145** (2013.01 - EP US); **B03C 3/366** (2013.01 - EP US); **B03C 3/41** (2013.01 - EP US);
B03C 3/47 (2013.01 - EP US); **G03G 21/20** (2013.01 - US); **B03C 2201/04** (2013.01 - EP US)

Citation (search report)
See references of WO 2013023644A1

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)
WO 2013023644 A1 20130221; EP 2744597 A1 20140625; EP 2744597 B1 20190320; US 2014352535 A1 20141204; US 9550189 B2 20170124

DOCDB simple family (application)
DE 2012000839 W 20120813; EP 12780398 A 20120813; US 201214238883 A 20120813