Title (en)

ELECTROSTATIC PRECIPITATOR

Title (de)

ELEKTROSTATISCHER ABSCHEIDER

Title (fr)

SÉPARATEUR ÉLECTROSTATIQUE

Publication

EP 2244834 B1 20120307 (DE)

Application

EP 09714062 A 20090114

Priority

- EP 2009000158 W 20090114
- DE 102008011949 A 20080229

Abstract (en)

[origin: WO2009106192A1] An electrostatic precipitator for removing solid and liquid components from an aerosol, characterized by at least one high-voltage bar extending into the gas flow path by means of a high-voltage insulator seated on the other side of the gas flow path. The high-voltage insulator is seated in a bowl-like insulator housing connected to an electric potential, through which the aerosol does not flow. The high voltage bar having electrodes extends coaxially in a hollow cylindrical mesh or grid electrode mounted with a front face on a base plate for the insulation housing and connected to a reference potential. The electrodes form circumferentially evenly distributed gaps of the minimum width H. The mesh or grid electrode abuts or protrudes into a nozzle plate. The mesh or grid electrode(s) is/are completely enclosed by a porous collector, no more than over the length of the sleeve by completely around the circumference. The entire aerosol flow must flow through the porous collector.

IPC 8 full level

B03C 3/49 (2006.01); **B03C 3/41** (2006.01); **B03C 3/86** (2006.01)

CPC (source: EP US)

B03C 3/41 (2013.01 - EP US); **B03C 3/49** (2013.01 - EP US); **B03C 3/86** (2013.01 - EP US); B03C 2201/08 (2013.01 - EP US); B03C 2201/10 (2013.01 - EP US)

Cited by

CN108372029A; USD1028199S; EP3492175A1; US11185871B2

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DOCDB simple family (publication)

WO 2009106192 A1 20090903; AT E548120 T1 20120315; DE 102008011949 A1 20100121; EP 2244834 A1 20101103; EP 2244834 B1 20120307; US 2011011265 A1 20110120; US 8337600 B2 20121225

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