

Title (en)

ELECTROSTATIC DUST SEPARATOR WITH INTEGRATED FILTER TUBING

Title (de)

ELEKTROSTATISCHER STAUBABSCHEIDER MIT INTEGRIERTEN FILTERSCHLÄUCHEN

Title (fr)

DEPOUSSIÈREUR ELECTROSTATIQUE A TUBES DE FILTRATION INTEGRES

Publication

EP 1361927 A1 20031119 (DE)

Application

EP 02710737 A 20020212

Priority

- CH 0200081 W 20020212
- CH 3282001 A 20010223

Abstract (en)

[origin: WO02066167A1] The electrostatic dust separator (10) has integrated filter tubing (12) whereby it is also known as a hybrid filter. The invention comprises plate-type collecting electrodes (14) which are arranged in a substantially parallel manner, filter tubing (12) extending in the channels thus formed (72) parallel to the collecting electrodes, and emission electrodes (16) disposed between the collecting electrodes (14) and the filter tubing (12). The electrodes (14,16) are connected to systems producing high voltage. A filter housing (18) has a gas inlet opening (28) leading to the electrodes (14,16), a gas outlet (30) and a dust collector funnel (32). The collecting electrodes (14) are electrically insulated in relation to the filter housing (18) and connected to the positive pole of the system for producing high voltage. The negative pole of the system for producing high voltage is connected to the filter housing (24) which forms an earth (24). The emission electrodes (16) with the corona points, and the filter tubing (12) placed in the immediate vicinity thereof, are connected to the filter housing (18) in an electrically conducting manner.

IPC 1-7

B03C 3/155; **B03C 3/66**

IPC 8 full level

B03C 3/155 (2006.01)

CPC (source: EP US)

B03C 3/155 (2013.01 - EP US)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 02066167 A1 20020829; **WO 02066167 A8 20031106**; EP 1361927 A1 20031119; US 2004065201 A1 20040408

DOCDB simple family (application)

CH 0200081 W 20020212; EP 02710737 A 20020212; US 46837403 A 20030819