

Title (en)

Device for separating particles from a gas flow charged with particles and method

Title (de)

Vorrichtung zum Abscheiden von Partikeln aus einem mit Partikeln beladenen Gasstrom und Verfahren

Title (fr)

Dispositif de séparation de particules à partir d'un flux de gaz chargé de particules et procédé

Publication

**EP 2772309 B1 20150603 (DE)**

Application

**EP 13157441 A 20130301**

Priority

EP 13157441 A 20130301

Abstract (en)

[origin: EP2772309A1] The device has a collecting electrode (5) lying at a ground potential, where electrically charged particles from a gas flow are accumulated at the collecting electrode. Counter electrodes (6) are arranged in a flow channel (1) and electrically connected with the collecting electrode. The counter electrodes form a corona discharge during exceeding of a boundary field intensity of an electrical field due to particle space charge in a region of the counter electrodes, where the corona discharge is polarized opposite to another corona discharge formed at a star-shaped spraying electrode (4). The counter electrode is a clamped wire. Independent claims are also included for the following: (1) a kit for retrofitting an electrical separator (2) a method for separating particles from a gas flow charged with particles.

IPC 8 full level

**B03C 3/06** (2006.01); **B03C 3/14** (2006.01); **B03C 3/41** (2006.01); **B03C 3/49** (2006.01); **B03C 3/68** (2006.01)

CPC (source: EP)

**B03C 3/06** (2013.01); **B03C 3/14** (2013.01); **B03C 3/41** (2013.01); **B03C 3/49** (2013.01); **B03C 3/68** (2013.01); **B03C 2201/04** (2013.01); **B03C 2201/10** (2013.01); **B03C 2201/24** (2013.01)

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)

**EP 2772309 A1 20140903; EP 2772309 B1 20150603**

DOCDB simple family (application)

**EP 13157441 A 20130301**