

Title (en)

ELECTROSTATIC PRECIPITATOR SYSTEM HAVING A DISCHARGE ELECTRODE WITH SUSPENDED WIRE

Title (de)

ELEKTROSTATISCHES ABSCHIEDERSYSTEM MIT ENTLADUNGSELEKTRODE MIT SUSPENDIERTEM DRAHT

Title (fr)

SYSTÈME PRÉCIPITEUR ÉLECTROSTATIQUE COMPORTANT UNE ÉLECTRODE DE DÉCHARGE À FIL EN SUSPENSION

Publication

EP 3492174 A1 20190605 (EN)

Application

EP 18209941 A 20181203

Priority

EP 17205176 A 20171204

Abstract (en)

The present invention relates to an electrostatic precipitator (ESP) system (1) for removal of dry particles from the flue gas in a chimney connected to e.g. a wood burning stove. The ESP system comprises a discharge electrode having a discharge electrode connector (204), which is connected to a high voltage generator (12), providing for an electric field around the discharge electrode. The discharge electrode is arranged in a flow passage part of which is delimited by a collection plate (5) forming the collection electrode of the ESP system. The discharge electrode has a first and a second wire connectors (201,202) which are connected to and separated a distance apart by a support rod (203). The first and second wire connectors have at least one wire (205) suspended between them. All the mentioned parts of the discharge electrode comprise, such as are made from, electrically conductive material.

IPC 8 full level

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CPC (source: EP)

B03C 3/41 (2013.01); **B03C 3/47** (2013.01); **B03C 3/743** (2013.01); **B03C 3/76** (2013.01); **B03C 3/761** (2013.01); **B03C 2201/04** (2013.01); **B03C 2201/12** (2013.01)

Citation (applicant)

US 2001020417 A1 20010913 - LIU BENJAMIN Y H [US], et al

Citation (search report)

- [IA] US 2001020417 A1 20010913 - LIU BENJAMIN Y H [US], et al
- [A] EP 1193445 A2 20020403 - EMPA [CH]
- [A] US 2016288138 A1 20161006 - TSAI CHUEN-JINN [TW]
- [A] EP 2108457 A2 20091014 - SCHIEDEL AG [AT]
- [A] EP 0044361 A1 19820127 - SANTEK INC [US]

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CN116727106A

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)

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DOCDB simple family (publication)

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