

Title (en)

Process and apparatus for electrical charging and separation of hardly removable particles from a gas stream

Title (de)

Verfahren und Vorrichtung zur elektrischen Aufladung und Abtrennung schwierig abzuschheidender Partikel aus einem Gasfluid

Title (fr)

Procédé et appareil pour le chargement électrique et la séparation de particules difficilement remouvables d'un écoulement de gaz

Publication

EP 0847806 B1 20011031 (DE)

Application

EP 97121114 A 19971202

Priority

DE 19650585 A 19961206

Abstract (en)

[origin: US6004376A] A method for removing electrostatically charged particles that are difficult to separate from a gas flow within one or more high-voltage fields, wherein only one high-voltage supply source is used for these high-voltage fields. The flows to be cleaned are successively ionized in an ionizing region and the particles are separated in a separating region within the one or more high-voltage fields, wherein the field strength of the ionizing region is weaker than the field strength of the separating region.

IPC 1-7

B03C 3/12; **B03C 3/38**

IPC 8 full level

B03C 3/66 (2006.01); **B03C 3/02** (2006.01); **B03C 3/08** (2006.01); **B03C 3/12** (2006.01); **B03C 3/38** (2006.01); **B03C 3/45** (2006.01)

CPC (source: EP KR US)

B03C 3/025 (2013.01 - EP KR US); **B03C 3/12** (2013.01 - EP KR US); **B03C 3/38** (2013.01 - EP KR US); **B03C 3/455** (2013.01 - EP KR US)

Designated contracting state (EPC)

AT BE DK ES FI FR GB GR IT NL SE

DOCDB simple family (publication)

US 6004376 A 19991221; AT E207779 T1 20011115; AU 4438797 A 19980611; AU 729469 B2 20010201; CN 1168541 C 20040929; CN 1184781 A 19980617; CZ 294557 B6 20050216; CZ 392897 A3 19990714; DE 19650585 A1 19980610; DE 19650585 C2 20011122; EP 0847806 A1 19980617; EP 0847806 B1 20011031; JP H10174901 A 19980630; KR 19980063870 A 19981007; PL 323444 A1 19980608; ZA 9710407 B 19980318

DOCDB simple family (application)

US 98487697 A 19971204; AT 97121114 T 19971202; AU 4438797 A 19971107; CN 97123095 A 19971205; CZ 392897 A 19971205; DE 19650585 A 19961206; EP 97121114 A 19971202; JP 33575997 A 19971205; KR 19970066468 A 19971206; PL 32344497 A 19971202; ZA 9710407 A 19971119