

Title (en)

Emission electrode for electrostatic dust separator.

Title (de)

Sprühelektrode für elektrostatische Staubabscheider.

Title (fr)

Electrode d'émission pour séparateur électrostatique de poussière.

Publication

**EP 0342731 A1 19891123 (DE)**

Application

**EP 89201128 A 19890502**

Priority

DE 3816717 A 19880517

Abstract (en)

[origin: JPH0217955A] PURPOSE: To absolutely prevent the many corona electrodes arranged in series from deviating from an electricity center more than needed and to surely fix these electrodes to a tensioning frame by designing the cross sections of at least the ends of the corona electrodes a semicircular shape. CONSTITUTION: The corona electrodes for a dust-collecting electrostatic precipitator consisting of belt-like or wire-shaped elongate bodies 2 having projecting corona ends are alternately arranged with perpendicular capturing electrode walls forming gas passages and the tensioning frame 7 comprising tubes across the gas flow direction. The top ends and bottom ends of the many corona electrodes are inserted into the holes of the horizontal tubes of the frame 7 and are welded to the horizontal tubes. At least the ends of the corona electrodes are formed to the semicircular cross sections. Consequently, the front ends of the corona are substantially prevented from being deviated from the electricity center and the safe two-point fixing at the tubes of the tensioning frame 7 is made possible.

Abstract (de)

Zur Verbesserung der Anordnung und Befestigung von Sprühelektroden (1) im Spannrahmen (7) wird vorgeschlagen, daß die Enden (5) der Sprühelektroden im Querschnitt halbkreisförmig ausgebildet sind. Auf diese Weise kann eine stabile Zweipunktschweißverbindung der Elektrodenenden mit den Rohren der Spannrahmen (7) erreicht werden, ohne daß die Sprühspitzen nennenswert außerhalb der elektrischen Mitte angeordnet werden müssen.

IPC 1-7

**B03C 3/41**; **B03C 3/86**

IPC 8 full level

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

CPC (source: EP US)

**B03C 3/41** (2013.01 - EP US); **B03C 3/86** (2013.01 - EP US)

Citation (search report)

- [X] DE 1557111 A1 19700312 - KLOECKNER HUMBOLDT DEUTZ AG
- [A] DE 299476 C
- [A] DE 2603514 A1 19770804 - METALLGESELLSCHAFT AG
- [A] DE 3138601 A1 19830414 - METALLGESELLSCHAFT AG [DE]
- [A] EP 0014273 A1 19800820 - METALLGESELLSCHAFT AG [DE]

Designated contracting state (EPC)

AT DE ES FR GB IT

DOCDB simple family (publication)

**EP 0342731 A1 19891123**; **EP 0342731 B1 19921223**; AT E83688 T1 19930115; AU 3478389 A 19891123; AU 610802 B2 19910523; CA 1330104 C 19940607; DE 3816717 A1 19891130; DE 58903079 D1 19930204; ES 2037391 T3 19930616; JP H0217955 A 19900122; US 4948399 A 19900814; ZA 893687 B 19910130

DOCDB simple family (application)

**EP 89201128 A 19890502**; AT 89201128 T 19890502; AU 3478389 A 19890516; CA 598982 A 19890508; DE 3816717 A 19880517; DE 58903079 T 19890502; ES 89201128 T 19890502; JP 12410089 A 19890517; US 35162289 A 19890512; ZA 893687 A 19890517