

Title (en)

DEVICE FOR DIELECTROPHORETIC SEPARATION OF PARTICLES CONTAINED IN A FLUID

Title (de)

VORRICHTUNG ZUR DIELEKTROPHORETISCHEN TRENNUNG VON PARTIKELN IN EINER FLÜSSIGKEIT

Title (fr)

DISPOSITIF POUR REALISER LA SEPARATION DIELECTROPHORETIQUE DE PARTICULES CONTENUES DANS UN FLUIDE

Publication

EP 1796843 B1 20110817 (FR)

Application

EP 05800525 A 20050915

Priority

- FR 2005050745 W 20050915
- FR 0410443 A 20041004

Abstract (en)

[origin: WO2006037910A1] The invention concerns a device for dielectrophoretic separation of particles contained in a fluid, comprising two types of electrodes A and B, each of the two types of electrodes being brought to a different potential, so as to generate an electric field inside said fluid, the two types of electrodes A and B being positioned inside a chamber, itself provided with a particle collecting surface. Each of the two types of electrodes is immersed in the fluid inside the chamber and is located in a plane different from the plane of the particle collecting surface. The two types of electrodes are supplied with electrical current in phase opposition. The potential of each of the two types of electrodes have a gradient based on the distance along the direction oz perpendicular to the plane of the particle collecting surface.

IPC 8 full level

B03C 5/02 (2006.01)

CPC (source: EP US)

B03C 5/026 (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

FR 2876045 A1 20060407; FR 2876045 B1 20061110; AT E520467 T1 20110915; EP 1796843 A1 20070620; EP 1796843 B1 20110817; JP 2008516215 A 20080515; JP 4931822 B2 20120516; US 2008011608 A1 20080117; US 8034226 B2 20111011; WO 2006037910 A1 20060413

DOCDB simple family (application)

FR 0410443 A 20041004; AT 05800525 T 20050915; EP 05800525 A 20050915; FR 2005050745 W 20050915; JP 2007535209 A 20050915; US 57621105 A 20050915