

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: US8034226B2] A device for dielectrophoretic separation of particles contained in a fluid, includes two sets of electrodes, each of the two sets of electrodes being brought to a different potential, so as to generate an electric field inside said fluid. The two sets of electrodes are positioned inside a chamber, itself provided with a particle collecting surface. Each of the two sets 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 sets of electrodes are supplied with electrical current in phase opposition. The potential of each of the two sets of electrodes have a gradient based on the distance along a direction perpendicular to the plane of the particle collecting surface.

IPC 8 full level

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