

Title (en)

Cell separation device and cell separation method

Title (de)

Zelltrennvorrichtung und Zelltrennverfahren

Title (fr)

Dispositif de séparation cellulaire et procédé de séparation cellulaire

Publication

EP 2027929 A2 20090225 (EN)

Application

EP 08014447 A 20080813

Priority

- JP 2007213922 A 20070820
- JP 2008197043 A 20080730

Abstract (en)

Plural types of cells having different dielectrophoretic properties are separated using a simple structure. There is provided a cell separation device including: a flow path through which a cell suspension flows, the cell suspension containing plural types of cells which have different dielectrophoretic properties; electrodes disposed to face each other in a direction intersecting a flow direction of the cell suspension flowing in the flow path; an electric field gradient forming portion which generates an electric field strength gradient between the electrodes; and a power supply applying an alternating voltage having a direct current component across the electrodes.

IPC 8 full level

B03C 5/00 (2006.01); **B03C 5/02** (2006.01)

CPC (source: EP US)

B03C 5/005 (2013.01 - EP US); **B03C 5/026** (2013.01 - EP US)

Citation (applicant)

- JP 2007213922 A 20070823 - MITSUBISHI ELECTRIC CORP
- JP 2008197043 A 20080828 - YOKOGAWA ELECTRIC CORP
- WO 9734689 A1 19970925 - UNIV NORTH WALES [GB], et al
- WO 0105512 A1 20010125 - UNIV WALES BANGOR [GB], et al
- WO 0105513 A1 20010125 - UNIV WALES BANGOR [GB], et al
- WO 0105514 A1 20010125 - UNIV WALES BANGOR [GB], et al
- WO 9734689 A1 19970925 - UNIV NORTH WALES [GB], et al
- WO 0105513 A1 20010125 - UNIV WALES BANGOR [GB], et al
- WO 0105514 A1 20010125 - UNIV WALES BANGOR [GB], et al
- WO 0105512 A1 20010125 - UNIV WALES BANGOR [GB], et al

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CN103217311A; EP2754709A4; CN103194371A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

EP 2027929 A2 20090225; **EP 2027929 A3 20130327**; US 2009050482 A1 20090226

DOCDB simple family (application)

EP 08014447 A 20080813; US 19102108 A 20080813