

## Title (en)

Microfluidic system with chamber and means for generating alternating magnetic fields

## Title (de)

Mikrofluidisches System mit Kammer und Mitteln zum Erzeugen von sich ändernden Magnetfeldern

## Title (fr)

Système microfluidique doté d'une chambre et moyen pour générer des champs magnétiques alternatifs

## Publication

**EP 2311564 A1 20110420 (EN)**

## Application

**EP 09172166 A 20091005**

## Priority

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## Abstract (en)

Microfluidic system comprising a processing chamber (1) and an assembly (2a-b,2a-d) for generating mutually alternating magnetic fields, provided in the vicinity of the processing chamber. Preferably, the assembly comprises a yoke (3) at one location relative to the processing chamber and at least one yoke (3) at another location relative to the processing chamber, each of the yokes comprising at least two yoke legs (4a,4b), connected to an alternatable magnetic field source between them, as well as an open end area including a small gap area (5) between both open yoke leg ends, the small gap areas of the yokes involved being located at different locations relative to the processing chamber, the alternatable magnetic field sources involved being arranged that, alternately, in one period a magnetic field is generated in the small gap area at one location of the processing chamber, and in another period a magnetic field is generated in the small gap area at another location of the processing chamber. The switchable magnetic field source may include a permanent magnet (6) and a rotatable magnet (7), either made of neodymium.

## IPC 8 full level

**B01L 3/00** (2006.01)

## CPC (source: EP)

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## Citation (applicant)

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- US 4628037 A 19861209 - CHAGNON MARK S [US], et al
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## Citation (search report)

- [X] US 2008160634 A1 20080703 - SU XING [US], et al
- [X] WO 2004078316 A1 20040916 - ECOLE POLYTECH [CH], et al
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## Designated contracting state (EPC)

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## Designated extension state (EPC)

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