

Title (en)  
FLUID PURIFIER HAVING MAGNETIC FIELD GENERATION

Title (de)  
FLUIDREINIGUNGSVORRICHTUNG MIT MAGNETFELDERZEUGUNG

Title (fr)  
PURIFICATEUR DE FLUIDE A GENERATION DE CHAMP MAGNETIQUE

Publication  
**EP 1694606 A2 20060830 (EN)**

Application  
**EP 04817895 A 20041123**

Priority

- US 2004039553 W 20041123
- US 73609103 A 20031215
- US 95971704 A 20041006

Abstract (en)  
[origin: WO2005061390A2] A fluid purifier includes a filter having a chamber of reduced cross section formed either between an inner wall and an outer wall or within the inner wall. A ceramic layer of granular ceramic particles and at least a pair of magnetic layers each comprising an annular magnet and magnetite pieces are provided above or below the ceramic layer in the chamber. The annular magnets are arranged in such a way that the same polarities of adjacent annular magnets are facing each other, and the direction of the magnetic lines of force is parallel to the direction of flow of the fluid. Fluid molecules are activated while passing through the magnetic field produced by the magnetic layers of annular magnets and magnetite pieces which are magnetized by the annular magnets. In other embodiments the magnets may be differently and irregularly shaped magnet pieces, magnetite pieces may also be present and the magnet pieces and/or the magnetite pieces may be coated with the ceramic.

IPC 8 full level  
**C02F 1/48** (2006.01); **B01D 35/06** (2006.01); **B03C 1/28** (2006.01); **C02F 1/00** (2006.01); **C02F 1/28** (2006.01)

CPC (source: EP KR)  
**B01D 35/06** (2013.01 - EP); **B03C 1/286** (2013.01 - EP); **C02F 1/004** (2013.01 - EP); **C02F 1/006** (2013.01 - EP); **C02F 1/481** (2013.01 - EP KR); **B03C 2201/18** (2013.01 - EP); **C02F 1/281** (2013.01 - EP); **C02F 2201/48** (2013.01 - KR); **C02F 2307/06** (2013.01 - EP KR)

Citation (search report)  
See references of WO 2005061390A2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2005061390 A2 20050707; WO 2005061390 A3 20050825**; AU 2004303816 A1 20050707; AU 2004303816 B2 20100520; CA 2549952 A1 20050707; EP 1694606 A2 20060830; JP 2007513764 A 20070531; KR 20060123340 A 20061201

DOCDB simple family (application)  
**US 2004039553 W 20041123**; AU 2004303816 A 20041123; CA 2549952 A 20041123; EP 04817895 A 20041123; JP 2006545682 A 20041123; KR 20067011840 A 20060615