

Title (en)  
FLUID PROCESSING DEVICE

Title (de)  
VORRICHTUNG ZUR FLÜSSIGKEITSVERARBEITUNG

Title (fr)  
DISPOSITIF DE TRAITEMENT DE FLUIDE

Publication  
**EP 2373409 A2 20111012 (EN)**

Application  
**EP 09833761 A 20091209**

Priority  
• SG 2009000475 W 20091209  
• JP 2008320314 A 20081216

Abstract (en)  
[origin: WO2010071606A2] To provide a fluid processing device that does fluid processing efficiently yet simple and at lower cost, by causing the fluid to enter agitated state with molecular motion activation and irradiating a-rays, which are radiated by a-ray Radiator (2) to the fluid, by means of the molecular motion accelerator. A Fluid Processing Device (1) does the fluid processing with a set of a-ray Radiator, equipped with a-ray radiation material that radiates a-rays in the inner side of Processor Tube (4), with the flow-route of the fluid in the internal space from fluid Inlet (14) towards Outlet (16) and by causing ionization after radiating a-rays to the fluid. The structure of Fluid Processing Device (1) comprises of Molecular Motion Accelerator (3), which activates the molecular motion of the fluid in above-mentioned Processor Tube (4) and does the fluid processing by radiating a-rays to the fluid on which molecular motion activation is done using a molecular motion accelerator, as shown in Figure 4.

IPC 8 full level  
**B01J 19/08** (2006.01); **B01D 53/34** (2006.01); **C02F 1/30** (2006.01); **C10G 32/04** (2006.01); **F01N 3/08** (2006.01); **F02M 27/06** (2006.01)

CPC (source: EP US)  
**A61L 9/18** (2013.01 - EP); **B01J 19/122** (2013.01 - EP US); **C02F 1/30** (2013.01 - EP); **F02M 27/045** (2013.01 - EP); **F02M 27/065** (2013.01 - EP); **F02M 29/02** (2013.01 - EP US); **F02M 35/10209** (2013.01 - EP); **B01J 2219/0875** (2013.01 - EP); **B01J 2219/0877** (2013.01 - EP); **B01J 2219/0892** (2013.01 - EP); **C02F 1/36** (2013.01 - EP); **C02F 1/485** (2013.01 - EP); **C02F 2303/04** (2013.01 - EP)

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 MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2010071606 A2 20100624**; **WO 2010071606 A3 20101125**; **WO 2010071606 A8 20130510**; CN 101952028 A 20110119;  
EP 2373409 A2 20111012; EP 2373409 A4 20121107; JP 2010142698 A 20100701; JP 5532286 B2 20140625

DOCDB simple family (application)  
**SG 2009000475 W 20091209**; CN 200980101204 A 20091209; EP 09833761 A 20091209; JP 2008320314 A 20081216