

Title (en)
Static micromixer

Title (de)
Statischer Mikrovermischer

Title (fr)
Micromélangeur statique

Publication
EP 1674150 A3 20060705 (DE)

Application
EP 05027041 A 20051210

Priority
DE 102004062076 A 20041223

Abstract (en)
[origin: EP1674150A2] A static micro-mixer for mixing fluid fractions, in which the openings of the fluid inlets into the mixing chamber are arranged alternately in at least one plane at one end of the chamber, with the outlet(s) at the other end outside the axis of symmetry of the chamber. A static micro-mixer comprising (a) a mixing chamber (12), (b) inlets (5) for at least two fluid fractions to be mixed or dispersed, each with at least one opening (6) into the chamber (12) and (c) at least one outlet (11) from the chamber (12). In this system, (d) the inlet openings (6) for the fluids are arranged in alternating sequence in at least one plane, (e) the chamber (12) is rotationally symmetrical with an axis of symmetry (13), with the outlet(s) at one end and the inlets at the other end, and (f) the outlet(s) is/are outside the axis of symmetry.

IPC 8 full level
B01F 5/04 (2006.01); **B01F 13/00** (2006.01)

CPC (source: EP)
B01F 25/3142 (2022.01); **B01F 25/31425** (2022.01); **B01F 33/3012** (2022.01)

Citation (search report)
• [AD] WO 02089966 A2 20021114 - UOP LLC [US], et al
• [A] US 2003039169 A1 20030227 - EHRFELD WOLFGANG [DE], et al

Cited by
WO2023159173A1; WO2023159171A1; WO2011091962A1; EP2433970A1; WO2023159175A1; WO2021195534A1; WO2023159172A1;
WO2009124531A3; JP2010000428A

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

DOCDB simple family (publication)
EP 1674150 A2 20060628; EP 1674150 A3 20060705; EP 1674150 B1 20070613; AT E364438 T1 20070715; DE 102004062076 A1 20060706;
DE 502005000859 D1 20070726

DOCDB simple family (application)
EP 05027041 A 20051210; AT 05027041 T 20051210; DE 102004062076 A 20041223; DE 502005000859 T 20051210