

Title (en)  
Improved fluid mixing device.

Title (de)  
Fluidummischvorrichtung.

Title (fr)  
Dispositif pour mélanger du fluide.

Publication  
**EP 0448198 A1 19910925 (EN)**

Application  
**EP 91300667 A 19910129**

Priority  
US 48359990 A 19900222

Abstract (en)  
An improved fluid mixing device comprising a mixing chamber (34) having end walls and a cylindrical side wall. A first fluid conduit (30) joins the mixing chamber at a first port formed in the first end. A second fluid conduit (50) joins the mixing chamber at a second port (58) formed in the side wall. A second fluid conduit is angled with respect to the mixing chamber to direct fluid flow from the conduit through the second port generally along the wall of the mixing chamber to create a rapid vortexing action. A third conduit (52) joins the mixing chamber at a third port in the second end. A fourth conduit (62) intersects the third conduit, the center lines of the third and fourth conduits offset at the area of intersection. <IMAGE>

IPC 1-7  
**B01F 5/00**

IPC 8 full level  
**G01N 35/02** (2006.01); **B01F 3/08** (2006.01); **B01F 5/00** (2006.01); **G01N 1/36** (2006.01)

CPC (source: EP)  
**B01F 25/10** (2022.01)

Citation (search report)

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Designated contracting state (EPC)  
BE DE ES FR GB IT

DOCDB simple family (publication)  
**EP 0448198 A1 19910925; EP 0448198 B1 19950712;** AU 636440 B2 19930429; AU 7018191 A 19910829; CA 2035067 C 19950627; DE 69111102 D1 19950817; DE 69111102 T2 19951116; ES 2089123 T3 19961001; JP 2505504 Y2 19960731; JP H0488855 U 19920803

DOCDB simple family (application)  
**EP 91300667 A 19910129;** AU 7018191 A 19910131; CA 2035067 A 19910128; DE 69111102 T 19910129; ES 91300667 T 19910129; JP 3443291 U 19910221