

Title (en)

Mixing device for mixing a substance with a pressurized liquid

Title (de)

Mischvorrichtung zur Mischung einer Substanz mit einer Druckflüssigkeit

Title (fr)

Mélangeur pour mélanger une substance avec un liquide sous pression

Publication

**EP 1473076 A2 20041103 (EN)**

Application

**EP 04101798 A 20040428**

Priority

IT UD20030095 A 20030430

Abstract (en)

Mixing device for mixing at least a substance and a fluid. The device comprises a container (12, 16) with a compartment (18), a first feeding member (20) to feed the substance from above into the compartment (18), a second feeding member (22) to feed the fluid into the compartment (18), and an outlet pipe (24), through which a mixture of the substance and the fluid emerges from the lower part of the compartment (18). The compartment (18) comprises at least a first part (17) having a gradual widening in section from the bottom towards the top. The second feeding member (22) is arranged in an intermediate zone between the first feeding member (20) and the outlet pipe (24) and is able to feed the fluid into the compartment (18) at a determinate pressure, so as to create a vortical motion upwards of the fluid in the first part (17), in a direction opposite that of the feed of the substance into the compartment (18). <IMAGE>

IPC 1-7

**B01F 5/00**; **B01F 3/12**

IPC 8 full level

**B01F 3/12** (2006.01); **B01F 5/00** (2006.01)

CPC (source: EP)

**B01F 23/50** (2022.01); **B01F 25/104** (2022.01); **B01F 2101/06** (2022.01); **B01F 2101/2202** (2022.01)

Designated contracting state (EPC)

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

Designated extension state (EPC)

HR

DOCDB simple family (publication)

**EP 1473076 A2 20041103**; **EP 1473076 A3 20051012**; **EP 1473076 B1 20070613**; AT E364437 T1 20070715; DE 602004006915 D1 20070726; DE 602004006915 T2 20080221; IT UD20030095 A1 20041101

DOCDB simple family (application)

**EP 04101798 A 20040428**; AT 04101798 T 20040428; DE 602004006915 T 20040428; IT UD20030095 A 20030430