Title (en)

MIXING UNIT, DEVICES USING SAME AND FLUID MIXING METHOD

Title (de)

MISCHELEMENT, VORRICHTUNGEN DAMIT UND FLÜSSIGKEITSMISCHVERFAHREN

Title (fr)

ÉLÉMENT MÉLANGEUR, DISPOSITIFS L'UTILISANT ET PROCÉDÉ DE MÉLANGE DE FLUIDES

Publication

EP 2826547 B1 20170823 (EN)

Application

EP 13760917 A 20130308

Priority

- US 201261610290 P 20120313
- JP 2013056439 W 20130308

Abstract (en)

[origin: EP2826547A1] A fluid is satisfactorily mixed, satisfactory mixing can be performed even when the flow rate of the fluid is high and suitable utilization in various devices can be realized. A stacked member (2) in which a plurality of mixing elements (21 a) are stacked and a first plate (3) and a second plate (4) that sandwich the stacked member (2) are provided. The mixing element (21 a) includes a plurality of first through holes (22) penetrating in a direction of thickness; a fluid is passed between the stacked mixing elements in a radial direction. The first plate (3) and the second plate (4) block the first through holes (22) at both ends of the stacked member in the stacking direction, and thus the flow of the fluid is achieved. The fluid is wound and passed through the first through holes (22), and thus it is possible to perform sufficient mixing.

IPC 8 full level

B01F 5/00 (2006.01); **B01F 7/00** (2006.01); **B01F 23/10** (2022.01); **B01F 27/96** (2022.01)

CPC (source: EP)

B01F 25/422 (2022.01); **B01F 25/44121** (2022.01); **B01F 25/4421** (2022.01); **B01F 25/52** (2022.01); **B01F 27/111** (2022.01); **B01F 27/13** (2022.01); **B01F 27/191** (2022.01); **B01F 27/50** (2022.01); **B01F 27/81** (2022.01)

Cited by

US2021080062A1; US11746960B2; US11224846B2; USD976384S; USD992107S; EP3411135B1

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AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)

EP 2826547 A1 20150121; **EP 2826547 A4 20151216**; **EP 2826547 B1 20170823**; CN 104168990 A 20141126; CN 104168990 B 20181030; JP 6229185 B2 20171115; JP WO2013137136 A1 20150803; WO 2013137136 A1 20130919

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