

Title (en)

DEVICE AND METHOD FOR CONTINUOUSLY PRODUCING EMULSIONS OR DISPERSIONS

Title (de)

VORRICHTUNG UND VERFAHREN ZUR KONTINUIERLICHEN HERSTELLUNG VON EMULSIONEN ODER DISPERSIONEN

Title (fr)

DISPOSITIF ET PROCEDE DE PRODUCTION CONTINUE D'EMULSIONS OU DE DISPERSIONS

Publication

**EP 1606044 B2 20101215 (DE)**

Application

**EP 03816337 A 20030321**

Priority

- EP 0302996 W 20030321
- EP 03816337 A 20030321

Abstract (en)

[origin: WO2004082817A1] A device for continuously producing emulsions or dispersions while excluding air comprises a mixing vessel, which is closed on all sides and which has both supply and discharge tubes for supplying and discharging free-flowing substances or substance mixtures as well as an impeller, which permits a mixing introduction into the emulsion or dispersion without producing cavitation forces and without high-pressure homogenization.

IPC 8 full level

**B01F 3/08** (2006.01); **B01F 3/12** (2006.01); **B01F 7/00** (2006.01); **B01F 13/10** (2006.01); **B01F 15/00** (2006.01)

CPC (source: EP US)

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Citation (opposition)

Opponent :

- US 4123403 A 19781031 - WARNER GREGORY L, et al
- DE 19828741 A1 19991230 - LEO ELEKTRONENMIKROSKOPIE GMBH [DE]
- US 5250576 A 19931005 - DESMARAIS THOMAS A [US], et al
- EP 0553620 A1 19930804 - BASF AG [DE]
- SCHMIDT WOLFGANG: "Wissenschaft und Technik", vol. 1, 1998, UNIV. DISS. PADERBORN, BERLIN, ISBN: 3-89685-473-9, article "Entwicklung von Reaktoren für die kontinuierliche Emulsionspolymerisation als Alternative zum Durchfluss-Rührkessel und zur Durchfluss-Rührkesselkaskade"

Cited by

DE102007005622A1; DE102010028774A1; DE102011116069A1; WO2013057144A2; US10610835B2; EP1964604A2

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**WO 2004082817 A1 20040930**; AU 2003226694 A1 20041011; AU 2003226694 B2 20100826; CA 2519591 A1 20040930; CA 2519591 C 20110712; DE 20321104 U1 20060105; DE 50305216 D1 20061109; EP 1606044 A1 20051221; EP 1606044 B1 20060927; EP 1606044 B2 20101215; JP 2006520678 A 20060914; JP 4782426 B2 20110928; US 2007025177 A1 20070201; US 7775704 B2 20100817

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