

Title (en)

DEVICE AND METHOD FOR DISTRIBUTION OF TWO MUTUALLY IMMISCIBLE LIQUIDS

Title (de)

VORRICHTUNG UND VERFAHREN ZUR VERTEILUNG ZWEIER NICHT MITEINANDER MISCHBARER FLÜSSIGKEITEN

Title (fr)

DISPOSITIF ET PROCEDE DE REPARTITION DE DEUX LIQUIDES NON MISCIBLES

Publication

EP 1928567 A1 20080611 (DE)

Application

EP 06793633 A 20060919

Priority

- EP 2006066497 W 20060919
- DE 102005045745 A 20050923

Abstract (en)

[origin: WO2007033960A1] The invention relates to a device (1) and a method for the distribution of two mutually immiscible liquids for mass-transfer and heat-exchange columns, comprising at least one distributor channel (4) or a distributor channel arrangement, the distributor channel being fed from a collection device arranged above the same via at least one inlet (6) having one or more liquids in various phases (12a, 12b), and the distributor channel having overflow orifices and/or outlet orifices (8a, 8b) for distributing the liquids. The device according to the invention is distinguished in that the distributor channel (4) has at least one internal (2) for phase separation of the liquid and in that, for each of the phases to be separated, separate outlet and/or overflow orifices (8a, 8b) are provided, whose cross section and/or liquid head are arranged as a function of the physical properties of the liquid in such a manner that a homogeneous distribution of the liquids according to predetermined phase fractions is achieved.

IPC 8 full level

B01D 3/20 (2006.01); **B01D 3/00** (2006.01); **B01D 3/26** (2006.01); **B01D 11/04** (2006.01)

CPC (source: EP US)

B01D 3/008 (2013.01 - EP US); **B01D 3/20** (2013.01 - EP US); **B01D 3/26** (2013.01 - EP US); **Y10T 137/0324** (2015.04 - EP US); **Y10T 137/0363** (2015.04 - EP US); **Y10T 137/2501** (2015.04 - EP US); **Y10T 137/2559** (2015.04 - EP US); **Y10T 137/85938** (2015.04 - EP US)

Citation (search report)

See references of WO 2007033960A1

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)

WO 2007033960 A1 20070329; CA 2623277 A1 20070329; CN 101267867 A 20080917; DE 102005045745 A1 20070412; EP 1928567 A1 20080611; JP 2009508684 A 20090305; US 2008245416 A1 20081009

DOCDB simple family (application)

EP 2006066497 W 20060919; CA 2623277 A 20060919; CN 200680034582 A 20060919; DE 102005045745 A 20050923; EP 06793633 A 20060919; JP 2008531687 A 20060919; US 6732306 A 20060919