

Title (en)
Mixing apparatus and use

Title (de)
Mischvorrichtung und Verwendung

Title (fr)
Dispositif de mélange et l'utilisation

Publication
EP 1121974 B1 20130612 (DE)

Application
EP 00114789 A 20000710

Priority
DE 10004104 A 20000131

Abstract (en)
[origin: WO0156687A1] According to a new partial stream method, different reagents (I, II) may be mixed quickly and intensively, especially for the production of emulsions, in a dispersing apparatus (10) which has a rotor/stator system (40, 50) at a container (B) near the bottom. A hot initial product, e.g. containing wax, may be dispersed with a dosed partial stream (R I') of a cold carrier in a premixing chamber (60) via a feeding device (30, 38) below the rotor (50). The resulting mixture is then remixed with a cold main stream (R I) or a part hereof (R I'') fed from above. Contrary to the dispersing systems known, wherein mixing and shearing of the components is performed simultaneously in the region of maximum shearing gradient, the method of the invention separates both time and location of mixing and shearing by feeding said components into the premixing chamber (60). The basic principle is that an optimum emulsion be obtained by preparing a homogeneous phase mixture first.

IPC 8 full level
B01F 3/08 (2006.01); **B01F 7/00** (2006.01); **B01F 7/16** (2006.01); **B01F 13/10** (2006.01)

CPC (source: EP)
B01F 23/40 (2022.01); **B01F 27/00** (2022.01); **B01F 27/80** (2022.01); **B01F 27/951** (2022.01); **B01F 33/80** (2022.01)

Cited by
DE10204921C1; DE102007016445A1; EP2572777A1; DE102004025281A1; DE102004025281B4; EP3202489A3; US7331540B2; US9527048B2; WO2010025913A3; WO2009135624A3; US8820796B2; US9249910B2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Designated extension state (EPC)
RO SI

DOCDB simple family (publication)
EP 1121974 A1 20010808; EP 1121974 B1 20130612; JP 2004524131 A 20040812; JP 4975929 B2 20120711; WO 0156687 A1 20010809

DOCDB simple family (application)
EP 00114789 A 20000710; EP 0011700 W 20001124; JP 2001556575 A 20001124