

Title (en)  
Device for emulsification

Title (de)  
Emulgiervorrichtung

Title (fr)  
Dispositif émulsifiant

Publication  
**EP 2662131 A3 20140903 (DE)**

Application  
**EP 13401048 A 20130507**

Priority  
DE 102012104053 A 20120509

Abstract (en)  
[origin: CA2815228A1] Emulsifying arrangement comprising a tubular emulsifying chamber (1) with a tubular wall and two end areas (2, 4) for a spiral flow (8) with a spiral flow direction, at least one inlet (3) for directing a fluid mixture of two non-mixable fluid fractions into the emulsifying chamber at the first end area (2) and at least one outlet (5) for conducting the fluid mixture out of the emulsification chamber at the second end area (4) wherein the emulsifying chamber (2) has between the two end areas (2, 4) a cross-section which is symmetrical around an axis of symmetry (6), wherein the outlet (5) and the inlet (3) enter or leave the tubular wall area tangentially in the flow direction or at an acute angle. It is the object to propose an emulsifying arrangement with increased efficiency which has no moving parts. The object is solved in that the axis of symmetry 6 and the emulsifying chamber have at least one curved area.

IPC 8 full level  
**B01F 3/08** (2006.01); **B01F 5/00** (2006.01); **B01F 13/00** (2006.01)

CPC (source: EP)  
**B01F 23/41** (2022.01); **B01F 25/10** (2022.01); **B01F 33/30** (2022.01)

Citation (search report)  
• [XYI] US 4234349 A 19801118 - SUZOR NORLAND L C  
• [XYI] DE 19628427 A1 19980122 - DORSTENER MASCHF AG [DE]  
• [AD] EP 0545334 B1 19950201 - STEINMAIER ROLAND [DE]  
• [A] US 4126425 A 19781121 - TWIGGE-MOLECEY CHRISTOPHER F M  
• [A] JP 2009125695 A 20090611 - FUKUI YOSHIKAZU  
• [A] WO 2011136295 A1 20111103 - TASHIZEN TECHNO WORKS CO LTD [JP], et al  
• [A] DE 1642794 A1 19710429 - STOCKHAUSEN & CIE CHEM FAB  
• [A] US 4345841 A 19820824 - DAY ROGER W  
• [A] WO 2010047168 A1 20100429 - ASAHI ORGANIC CHEM IND [JP], et al  
• [A] WO 0168257 A1 20010920 - BIOPROCESSORS CORP [US]  
• [Y] US 2009084557 A1 20090402 - OBREJANU MARCEL [CA]

Designated contracting state (EPC)  
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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**DE 102012104053 B3 20130926**; CA 2815228 A1 20131109; DK 2662131 T3 20170116; EP 2662131 A2 20131113; EP 2662131 A3 20140903; EP 2662131 B1 20161005; PL 2662131 T3 20170630

DOCDB simple family (application)  
**DE 102012104053 A 20120509**; CA 2815228 A 20130508; DK 13401048 T 20130507; EP 13401048 A 20130507; PL 13401048 T 20130507