

Title (en)  
NEW DEVICE FOR GAS-LIQUID SEPARATION, INTENDED FOR THREE-PHASE FLUIDISED BED REACTORS SUCH AS THOSE USED IN THE H-OIL PROCESS

Title (de)  
NEUE VORRICHTUNG ZUR GAS-FLÜSSIG-TRENNUNG FÜR DREIPHASIGE WIRBELSCHICHTREAKTOREN WIE SOLCHE ZUR VERWENDUNG IM H-ÖL-PROZESS

Title (fr)  
NOUVEAU DISPOSITIF DE SEPARATION GAZ LIQUIDE POUR EQUIPER LES REACTEURS EN LIT FLUIDISE TRIPHASIQUE TELS QUE CEUX UTILISES DANS LE PROCEDE H-OIL

Publication  
**EP 3538626 A1 20190918 (FR)**

Application  
**EP 17791104 A 20171031**

Priority  
• FR 1660835 A 20161109  
• EP 2017077848 W 20171031

Abstract (en)  
[origin: WO2018086958A1] The invention relates to a device for gas-liquid separation, intended for three-phase fluidised bed reactors such as those used in the H-oil process. The present device comprises an optimised helicoidal spiral.

IPC 8 full level  
**B01D 17/00** (2006.01); **B01D 19/00** (2006.01); **B01J 8/22** (2006.01); **C10G 49/22** (2006.01)

CPC (source: EP US)  
**B01D 17/00** (2013.01 - EP US); **B01D 19/0042** (2013.01 - EP); **B01D 19/0052** (2013.01 - EP US); **B01J 8/22** (2013.01 - EP US); **C10G 49/22** (2013.01 - EP US)

Citation (search report)  
See references of WO 2018086958A1

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)  
**FR 3058421 A1 20180511**; **FR 3058421 B1 20200724**; CN 110139918 A 20190816; EP 3538626 A1 20190918; RU 2019117610 A 20201210; US 2019321753 A1 20191024; WO 2018086958 A1 20180517

DOCDB simple family (application)  
**FR 1660835 A 20161109**; CN 201780069393 A 20171031; EP 17791104 A 20171031; EP 2017077848 W 20171031; RU 2019117610 A 20171031; US 201716348745 A 20171031