

Title (en)
DROPLET PRECIPITATOR

Title (de)
TROPFENABSCHIEDER

Title (fr)
SÉPARATEUR DE GOUTTELETTES

Publication
EP 2621605 A1 20130807 (DE)

Application
EP 11751915 A 20110906

Priority
• EP 10183928 A 20100930
• EP 2011065386 W 20110906
• EP 11751915 A 20110906

Abstract (en)
[origin: WO2012041665A1] The invention relates to a droplet precipitator (10) comprising a flow channel (5) through which a gas charged with droplets can be fed and which can be permeated by said gas charged with droplets along a main flow direction (6), wherein a precipitating element (8) is disposed substantially annularly about the flow channel (5) and can be permeated by an annular flow directed away from the flow channel (5). The precipitating element (8) comprises a floor element (11) and a ceiling element (12) and a plurality of connecting elements (1) disposed between the floor element (11) and the ceiling element (12) such that the floor element (11) and the ceiling element (12) are disposed spaced apart from each other at a distance determined by the connecting elements (1). The connecting element (1) comprises a wall element (3, 13, 30), along which droplets of the gas charged with droplets can be guided as a film in the direction of the floor element (11), wherein the wall element (3, 13, 30) comprises a precipitating surface comprising an average width of greater than 1 mm. The precipitating element (8) comprises a ring element (17) disposed substantially annularly about the flow channel (5) and comprising an inner shell surface having substantially the same diameter as the flow channel (5), and penetration openings are provided in the ring element for entry of the gas charged with droplets.

IPC 8 full level
B01D 45/08 (2006.01)

CPC (source: EP US)
B01D 45/08 (2013.01 - EP US); **B01D 45/12** (2013.01 - US); **B01D 50/20** (2022.01 - US); **B01D 45/06** (2013.01 - US); **B29C 65/00** (2013.01 - US)

Citation (search report)
See references of WO 2012041665A1

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

DOCDB simple family (publication)
WO 2012041665 A1 20120405; AU 2011310834 A1 20130418; AU 2011310834 B2 20160421; BR 112013007667 A2 20160809; CA 2813100 A1 20120405; CN 103228331 A 20130731; CN 103228331 B 20160615; EP 2621605 A1 20130807; MX 2013001504 A 20130227; MX 337339 B 20160226; RU 2013120040 A 20141110; RU 2568479 C2 20151120; US 2014007770 A1 20140109; US 9132370 B2 20150915

DOCDB simple family (application)
EP 2011065386 W 20110906; AU 2011310834 A 20110906; BR 112013007667 A 20110906; CA 2813100 A 20110906; CN 201180047468 A 20110906; EP 11751915 A 20110906; MX 2013001504 A 20110906; RU 2013120040 A 20110906; US 201113877321 A 20110906