

Title (en)
Heat exchanger and a method for demisting

Title (de)
Wärmetauscher und Verfahren zur Entfeuchtung

Title (fr)
Échangeur de chaleur et procédé de désembuage

Publication
EP 2908081 A1 20150819 (EN)

Application
EP 14155144 A 20140214

Priority
EP 14155144 A 20140214

Abstract (en)
A heat exchanger for and a method of demisting a gas wherein the heat exchanger comprises a case (2) with at least a case inlet for a gas to be demisted (3) and at least a case outlet for the gas to be demisted (4), a separation structure (6) located within the case defining a first section (7) and a second section comprising a hollow curved volume (8), means for heat transfer (10) housed within the first section; and wherein the first section has the case inlet (3) and the second section has the case outlet (4) and a liquid drainage (16) and a channel (17) having a longitudinal axis directed towards a side of the case (2) to pass gas from the first section (7) to the second section (8) such that the gas-flow is tangential to the case curvature and the gas undergoes centrifugal forces.

IPC 8 full level
F28F 9/22 (2006.01); **F28B 1/02** (2006.01); **F28D 7/06** (2006.01); **F28F 17/00** (2006.01); **F28D 21/00** (2006.01)

CPC (source: EP US)
F24F 3/1405 (2013.01 - US); **F25D 21/14** (2013.01 - US); **F28B 1/02** (2013.01 - EP US); **F28D 7/06** (2013.01 - EP US);
F28F 9/22 (2013.01 - EP US); **F28F 17/005** (2013.01 - EP US); **F24F 2003/1446** (2013.01 - US); **F28D 2021/0038** (2013.01 - EP US);
F28F 2265/06 (2013.01 - EP US)

Citation (applicant)
EP 2365269 A1 20110914 - ALSTOM TECHNOLOGY LTD [CH]

Citation (search report)
• [XA] SU 1460570 A1 19890223 - MO I KHIM MASH [SU]
• [X] CN 202630717 U 20121226 - SHANXI YANGMEI FENGXI FERTILIZER INDUSTRY GROUP CO LTD
• [XA] JP S63178759 U 19881118
• [A] EP 2241848 A2 20101020 - TLV CO LTD [JP]

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)
EP 2908081 A1 20150819; AU 2014271242 A1 20150903; CA 2874601 A1 20150814; CN 104848727 A 20150819; US 2015233587 A1 20150820

DOCDB simple family (application)
EP 14155144 A 20140214; AU 2014271242 A 20141202; CA 2874601 A 20141212; CN 201510077534 A 20150213;
US 201514619598 A 20150211