

Title (en)
THIN FILM EVAPORATOR

Title (de)
DÜNNSCHICHTVERDAMPFER

Title (fr)
ÉVAPORATEUR À COUCHE MINCE

Publication
EP 2641036 A4 20160817 (EN)

Application
EP 11841861 A 20111116

Priority
• US 41405910 P 20101116
• US 201113297481 A 20111116
• US 2011060994 W 20111116

Abstract (en)
[origin: US2012118545A1] A thin film evaporator has a shell with tubes extending through the shell in at least one pass. The shell has a top and a bottom. Process fluid flows through the tubes. A suction from a compressor is applied to the top of the shell at a refrigerant outlet. Refrigerant is introduced into the shell at the bottom and is distributed across the bottom region of the shell. The refrigerant flows up and contacts the tubes, exchanging heat therewith before flowing out of the shell top. Oil in the refrigerant contacts the shell wall and drains into a sump.

IPC 8 full level
F25B 39/02 (2006.01)

CPC (source: EP US)
F25B 39/02 (2013.01 - EP US); **F28D 3/02** (2013.01 - EP US); **F28D 3/04** (2013.01 - EP US); **F28D 7/06** (2013.01 - EP US); **F25B 2339/0242** (2013.01 - EP US); **F28D 2021/0071** (2013.01 - EP US)

Citation (search report)
• [XY] JP S61195251 A 19860829 - EBARA CORP
• [Y] US 3096630 A 19630709 - ANTHONY WELLER PETER
• [XP] US 2011226005 A1 20110922 - LEE HYUNG JUN [KR]
• [A] US 2008163637 A1 20080710 - RING H KENNETH [US], et al
• [A] US 3822567 A 19740709 - KASAHARA K
• [A] WO 9803826 A1 19980129 - AMERICAN STANDARD INC [US]
• See references of WO 2012068250A1

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)
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DOCDB simple family (application)
US 201113297481 A 20111116; CN 201180029134 A 20111116; EP 11841861 A 20111116; HK 13107748 A 20130703; US 2011060994 W 20111116