

Title (en)
STEAM GENERATOR

Title (de)
DAMPFERZEUGER

Title (fr)
GÉNÉRATEUR DE VAPEUR

Publication
EP 2728253 A4 20160127 (EN)

Application
EP 12804360 A 20120621

Priority
• JP 2011143554 A 20110628
• JP 2011253188 A 20111118
• JP 2011271083 A 20111212
• JP 2012065862 W 20120621

Abstract (en)
[origin: US2014014295A1] A steam generator includes: an annular member (21) that surrounds a U-bent portion (18) obtained by collectively disposing bent portions of a plurality of heat transfer tubes and is provided between an outer peripheral portion of the U-bent portion (18) and a tube bundle shroud (3) surrounding the outer peripheral portion so as to have a predetermined gap with respect to the U-bent portion (18); a second support member (22) that is provided between the annular member (21) and the tube bundle shroud (3); and a third support member (23) that is attached to a cylinder portion (2) accommodating a plurality of heat transfer tubes and supports the second support member (22).

IPC 8 full level
F22B 37/20 (2006.01); **F22B 1/16** (2006.01); **F28D 7/16** (2006.01); **F28F 9/00** (2006.01); **G21D 1/00** (2006.01)

CPC (source: EP US)
F22B 1/025 (2013.01 - EP US); **F22B 37/206** (2013.01 - EP US); **F28D 1/0475** (2013.01 - US); **F28D 7/1638** (2013.01 - EP US); **F28F 9/013** (2013.01 - EP US); **F28D 2021/0054** (2013.01 - EP US); **F28D 2021/0064** (2013.01 - EP US); **F28F 2225/04** (2013.01 - EP US); **F28F 2265/00** (2013.01 - EP US); **F28F 2265/30** (2013.01 - EP US)

Citation (search report)
• [A] US 5515911 A 19960514 - BOULA GERARD [FR], et al
• [A] US 5692557 A 19971202 - GILLET NICOLAS [FR], et al
• [XA] US 5042433 A 19910827 - MONNIER BERNARD [FR]
• [XA] US 2009020273 A1 20090122 - SCHNEIDER WILLIAM G [CA], et al
• See references of WO 2013002118A1

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)
US 2014014295 A1 20140116; EP 2728253 A1 20140507; EP 2728253 A4 20160127; WO 2013002118 A1 20130103

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