

Title (en)
CAPACITY BOOSTING DURING PULLDOWN

Title (de)
KAPAZITÄTSERHÖHUNG WÄHREND EINES PULLDOWNS

Title (fr)
AUGMENTATION DE LA CAPACITE PENDANT LA DESCENTE

Publication
EP 2331887 A4 20130424 (EN)

Application
EP 09816707 A 20090916

Priority
• US 2009057068 W 20090916
• US 10092908 P 20080929

Abstract (en)
[origin: WO2010036540A1] The transcritical refrigeration system is provided with a main compressor and booster compressor that is made to operate in parallel with the main compressor only during pulldown conditions. A single, two stage compressor is provided with valving which is controlled so as to provide for the two stages operating in series in normal operation and for operating in parallel during pulldown conditions.

IPC 8 full level
F25B 1/10 (2006.01); **F25B 9/00** (2006.01)

CPC (source: EP US)
F25B 9/008 (2013.01 - EP US); **F25B 41/20** (2021.01 - EP US); **F25B 2400/075** (2013.01 - EP US); **F25B 2600/02** (2013.01 - EP US); **F25B 2600/2507** (2013.01 - EP US)

Citation (search report)
• [Y] JP S5485455 A 19790707 - MITSUBISHI ELECTRIC CORP
• [Y] US 2008110200 A1 20080515 - JAVERSCHEK OLIVER [DE]
• [I] US 2154136 A 19390411 - PARCARO MICHAEL P
• [XI] JP 2003202161 A 20030718 - HITACHI LTD
• [I] US 5570585 A 19961105 - VAYNBERG MIKHAIL [US]
• [A] US 5768901 A 19980623 - DORMER MICHAEL J [US], et al
• [A] US 2008011014 A1 20080117 - RENZ HERMANN [DE], et al
• See references of WO 2010036540A1

Citation (examination)
US 2004250560 A1 20041216 - IKURA HIROSHI [JP], et al

Designated contracting state (EPC)
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 SE SI SK SM TR

DOCDB simple family (publication)
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DOCDB simple family (application)
US 2009057068 W 20090916; CN 200980138159 A 20090916; EP 09816707 A 20090916; JP 2011529113 A 20090916; US 200913061576 A 20090916