

Title (en)
TANDEM COMPRESSORS WITH PULSE WIDTH MODULATION SUCTION VALVE

Title (de)
TANDEMVERDICHTER MIT PULSBREITENMODULATIONSSAUGVENTIL

Title (fr)
COMPRESSEURS EN TANDEM COMPRENANT UNE SOUPAPE D'ASPIRATION À MODULATION D'IMPULSIONS EN DURÉE

Publication
EP 2049848 A1 20090422 (EN)

Application
EP 06800964 A 20060808

Priority
US 2006030884 W 20060808

Abstract (en)
[origin: WO2008018867A1] A refrigerant system is provided with tandem compressors. A tandem compressor arrangement includes at least two compressors operating in parallel and having at least one common manifold. A control may operate the compressors either simultaneously, or in some predetermined sequence to provide control over refrigerant system capacity. At least one of the tandem compressors is provided with a pulse width modulation control on a suction line. In this manner, the amount of refrigerant, compressed by the compressor, can be precisely controlled to exactly meet thermal load demands in the conditioned space.

IPC 8 full level
F25B 1/00 (2006.01); **F25B 5/02** (2006.01); **F25B 6/02** (2006.01); **F25B 41/04** (2006.01); **F25B 49/02** (2006.01)

CPC (source: EP US)
F25B 5/02 (2013.01 - EP US); **F25B 6/02** (2013.01 - EP US); **F25B 41/22** (2021.01 - EP US); **F25B 49/022** (2013.01 - EP US);
F25B 2400/075 (2013.01 - EP US); **F25B 2400/13** (2013.01 - EP US); **F25B 2600/0251** (2013.01 - EP US); **F25B 2600/2521** (2013.01 - EP US)

Cited by
EP3144605A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
WO 2008018867 A1 20080214; CN 101506595 A 20090812; EP 2049848 A1 20090422; EP 2049848 A4 20120215;
US 2009288432 A1 20091126

DOCDB simple family (application)
US 2006030884 W 20060808; CN 200680055549 A 20060808; EP 06800964 A 20060808; US 30763109 A 20090106