

Title (en)  
Variable capacity refrigeration system

Title (de)  
Kühlsystem mit veränderlicher leistung

Title (fr)  
Système de réfrigération à puissance variable

Publication  
**EP 2357431 A1 20110817 (EN)**

Application  
**EP 10382016 A 20100201**

Priority  
EP 10382016 A 20100201

Abstract (en)  
Refrigeration system with variable capacity ( fig. 1 ), said system involving at least: one or more compressors, a condenser, and means to manage the refrigerant flow. Those means consisting of: a restriction control valve in the refrigerant return line from evaporators, a hot gas by-pass valve between the compressor discharge and the compressor suction line, and a thermostatic liquid injection valve into the compressor suction line.

IPC 8 full level  
**F25B 41/04** (2006.01)

CPC (source: EP US)  
**F25B 41/22** (2021.01 - EP US); **F25B 2400/13** (2013.01 - EP); **F25B 2600/0251** (2013.01 - EP); **F25B 2600/0261** (2013.01 - EP); **F25B 2600/2509** (2013.01 - EP); **F25B 2700/1933** (2013.01 - EP); **F25B 2700/2117** (2013.01 - EP)

Citation (applicant)  
• US 2002021972 A1 20020221 - VAISMAN IGOR [CA]  
• EP 0981033 A2 20000223 - CARRIER CORP [US]  
• WANG ET AL.: "Mechanical Engineering Handbook", 1999, article "Air conditioning and refrigeration", pages: 9.77  
• WANG: "Handbook of Air conditioning and Refrigeration", 2000, MCGRAW-HILL, pages: 11.24 - 26

Citation (search report)  
• [X] WO 2009056561 A1 20090507 - OLIVA TORRAS S A L [ES], et al  
• [X] WO 2005088212 A1 20050922 - ARCELIK AS [TR], et al  
• [X] WO 2008079122 A1 20080703 - CARRIER CORP [US], et al

Cited by  
CN108603695A; EP2873936A3; WO2017102122A1; WO2017123602A1

Designated contracting state (EPC)  
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Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
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