

Title (en)
HVAC SYSTEMS AND METHODS WITH IMPROVED STABILIZATION

Title (de)
KLIMAANLAGEN UND VERFAHREN MIT VERBESSERTER STABILISIERUNG

Title (fr)
SYSTÈMES HVAC ET PROCÉDÉS AVEC STABILISATION AMÉLIORÉE

Publication
EP 3059525 A1 20160824 (EN)

Application
EP 16154091 A 20160203

Priority
US 201514625609 A 20150218

Abstract (en)
Systems and methods are presented for improving stabilization of a heating, ventilating, and air conditioning (HVAC) system. More specifically, the systems and methods include a heat-flow modulator for regulating an exchange of thermal energy between a flow of refrigerant and a sensory bulb. The exchange of thermal energy allows an expansion valve to respond to a refrigerant temperature using an actuator, which is coupled to the sensory bulb. The heat-flow modulator is formed of a body that includes a first contact surface and a second contact surface. The first contact surface is thermally-coupled to a suction line of the HVAC system, which conveys the flow of refrigerant. The second contact surface is thermally-coupled to the sensory bulb. Other systems and methods are presented.

IPC 8 full level
F25B 41/06 (2006.01); **F25B 41/00** (2006.01); **G01K 1/14** (2006.01)

CPC (source: EP US)
F25B 41/335 (2021.01 - EP US); **F25B 49/02** (2013.01 - US); **F25B 41/42** (2021.01 - EP US); **F25B 2341/068** (2013.01 - EP US); **F25B 2341/0683** (2013.01 - EP US); **F25B 2400/054** (2013.01 - EP US); **F25B 2500/15** (2013.01 - EP US); **F25B 2600/2513** (2013.01 - EP US); **F25B 2700/21151** (2013.01 - EP US)

Citation (search report)

- [I] US 5361597 A 19941108 - HAZIME TANAKA [JP], et al
- [A] US 6334707 B1 20020101 - KU BRYAN [TW]
- [A] US 2014376594 A1 20141225 - DAILY JEFFREY N [US], et al
- [A] JP 2003075032 A 20030312 - SANYO ELECTRIC CO, et al
- [I] US 2005066671 A1 20050331 - SRICHAH PANAYU ROBERT [US], et al
- [I] US 5056324 A 19911015 - HALEY JAMES H [US]
- [I] US 3264837 A 19660809 - HARNISH JAMES R

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3059525 A1 20160824; CA 2918889 A1 20160818; US 2016238298 A1 20160818

DOCDB simple family (application)
EP 16154091 A 20160203; CA 2918889 A 20160126; US 201514625609 A 20150218