

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  
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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  
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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)  
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