Title (en)
METHOD FOR CONTROLLING ELECTRONIC EXPANSION VALVE OF AIR CONDITIONER

Title (de)
VERFAHREN ZUR STEUERUNG EINES ELEKTRONISCHEN EXPANSIONSVENTILS FÜR EINE KLIMAANLAGE

Title (fr)
PROCÉDÉ DE COMMANDE DE VANNE DE DÉTENTE ÉLECTRONIQUE DE CONDITIONNEUR D'AIR

Publication
EP 2047185 A1 20090415 (EN)

Application
EP 07768769 A 20070716

Priority
• KR 2007003440 W 20070716
• KR 20060073556 A 20060804

Abstract (en)
[origin: WO2008016228A1] A method for controlling an electronic expansion valve (EEV) in an air conditioner using a compressor includes the steps of: (a) opening the EEV completely when a power is applied to the air conditioner in stand-by mode; (b) closing the EEV completely when the air conditioner starts a cooling or a heating operation; (c) calculating an indoor heat load; (d) calculating a reference opening pulse frequency of the EEV; and (e) controlling in a stepwise manner an opening pulse frequency of the EEV based on the reference opening pulse frequency of the EEV. The opening pulse frequency of the EEV is controlled in a stepwise manner until it reaches the reference opening pulse frequency of the EEV.

IPC 8 full level
F25B 49/02 (2006.01)

CPC (source: EP KR US)
F25B 41/347 (2021.01 - EP KR US); **F25B 49/02** (2013.01 - KR); F25B 13/00 (2013.01 - EP US); F25B 2313/02741 (2013.01 - EP US); F25B 2500/06 (2013.01 - EP US); F25B 2500/19 (2013.01 - EP US); F25B 2500/26 (2013.01 - EP US); F25B 2600/2513 (2013.01 - EP US); F25B 2700/2104 (2013.01 - EP US); F25B 2700/2106 (2013.01 - EP US); Y02B 30/70 (2013.01 - EP US)

Citation (search report)
See references of WO 2008016228A1

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 MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
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DOCDB simple family (application)
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