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(54) Title: COMPRESSOR DISCHARGE CONTROL ON A TRANSPORT REFRIGERATION SYSTEM

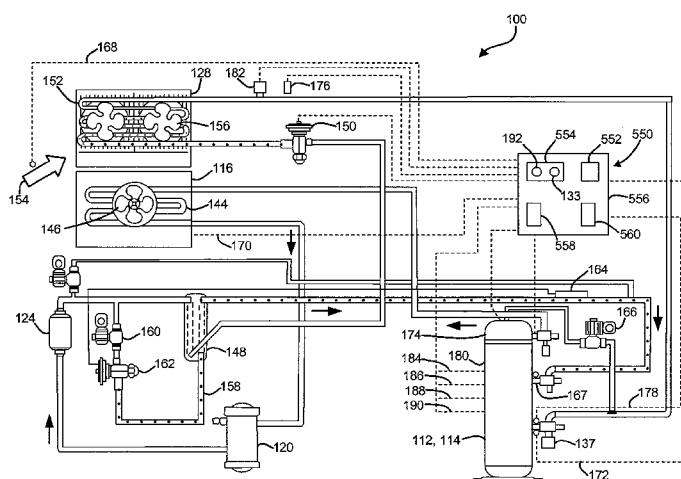


FIG. 2

(57) Abstract: In a refrigeration system having a compressor, a condenser, an evaporator, and a controller for controlling an expansion valve, a process for controlling compressor discharge during a cooling cycle comprising the steps of monitoring a compressor discharge parameter, comparing the compressor discharge parameter to a set point stored in a controller memory, and selectively operating the expansion valve upstream of the evaporator in response to a difference between the compressor discharge parameter and the set point.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2009/057688**A. CLASSIFICATION OF SUBJECT MATTER****F04B 49/06(2006.01)i, F04B 49/03(2006.01)i**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

F04B 49/06; F04B 49/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

(Chinese Patents and application for patent)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: adjustment track, relative, secured track, refrigerant vapor, condenser, evaporator, expansion valve, cooling cycle, upstream

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KR 10-0652978 B1 (GENERAL ELECTRIC COMPANY) 30 November 2006 See abstract, claim 1-10, fig 2-6	1-20
A	KR 10-0480375 B1 (LG ELECTRONICS INC.) 06 April 2005 See abstract, claim 1, claim 5, fig 5	1-20
A	KR 10-0393807 B1 (LG ELECTRONICS INC.) 02 August 2003 See claim 1-13, fig 7	1-20
A	KR 10-0718448 B1 (DAIKIN INDUSTRIES, LTD.) 14 May 2007 See abstract, claim 7, fig 1-3	1-20

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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KR 10-0480375 B1	06.04.2005	None	
KR 10-0393807 B1	02.08.2003	None	
KR 10-0718448 B1	14.05.2007	CN 1402813 A0 EP 1239156 A1 JP 2001-165058 A KR 10-0718447 B1 US 2003-0079485 A1 US 6779354 B2 WO 01-44662 A1	12.03.2003 11.09.2002 19.06.2001 14.05.2007 01.05.2003 24.08.2004 21.06.2001