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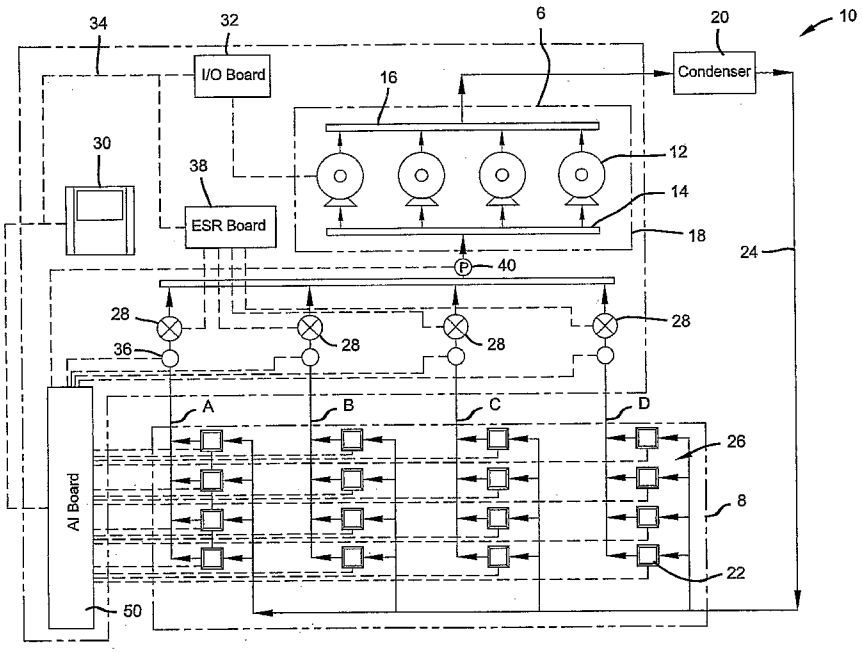
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[Continued on next page]

(54) Title: FIXED AND VARIABLE COMPRESSOR SYSTEM CAPACITY CONTROL



(57) Abstract: A compressor control system includes at least one variable compressor, at least one fixed-capacity compressor, and a controller. The controller modulates the variable compressor based on a suction pressure reading of the variable speed compressor. In addition, the controller selectively toggles the fixed-capacity compressor between a run mode and a shutdown mode based on an operating parameter of the variable compressor.

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FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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A. CLASSIFICATION OF SUBJECT MATTER
IPC: **F04B 41/06**(2006.01),**43/12**(2006.01),**23/08**(2006.01),**49/00**(2006.01),**7/02**(2006.01)

USPC: 417/5,199.1,216,226,274,53,310
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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 417/5,199.1,216,226,274,53,310

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

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 5,586,444 A (FUNG) 24 Dec. 1996 (24.12.1996), column 1, lines 36-46, column 5, lines 7-28, column 10 lines 9-29.	1,3,4,6,7,9,16,17,18 and 21 --- 2, 5, 8, 10-15, 19, 20 and 22-38

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Date of the actual completion of the international search	Date of mailing of the international search report
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Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Authorized officer Timothy Thorpe Telephone No. 571-272-3750

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C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2002/0157409 A1 (PHAM et al) 31 Oct. 2002 (31.10.2002), paragraphs 53, 62, 43, 70, and 57.	2,5,8,19,20 and 22-29