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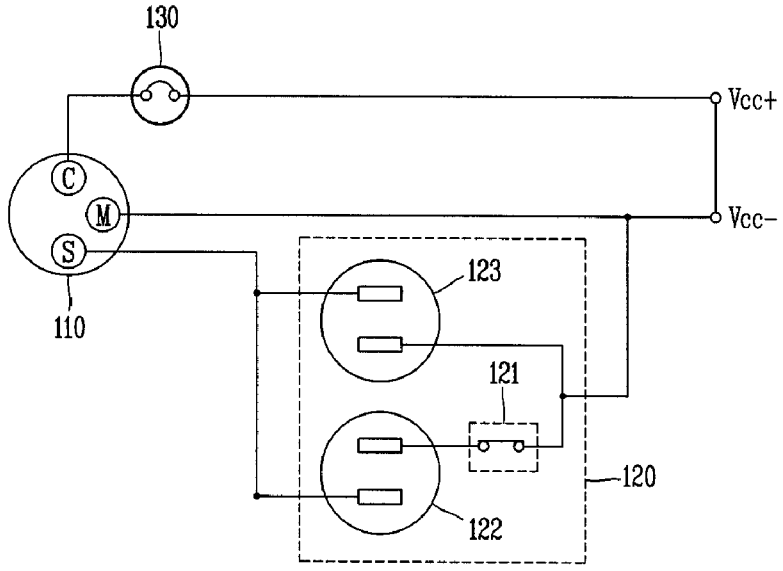
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[Continued on next page]

(54) Title: APPARATUS AND METHOD FOR CONTROLLING OPERATION OF COMPRESSOR

[Fig. 4]



(57) Abstract: An apparatus and method for controlling an operation of a compressor are disclosed to enhance a compressor efficiency in each operation mode in operating a compressor in a power mode or power saving mode according to an external load. The apparatus for controlling an operation of a compressor, including: a controller that generates a control signal to select an operation mode of the compressor according to an operation load of the compressor; a compressor motor (110) that includes a main coil and a sub-coil and is driven in one of a plurality of operation modes according to a control signal of the controller; and a power supply unit (120) that applies power via capacitors (122, 123) each having a different capacitance to the sub-coil of the compressor motor (110) according to a control signal of the controller.

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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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)
EPODOC, WPI

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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A	GB 2292847 A (MITSUBISHI DENKI KABUSHIKI KAISHA) 6 March 1996 (06.03.1996) *Abstract; fig. 1; page 6, line 21 - page 7, line 12;*	1-3,9-12,14, 17,19
A	JP 4340394 A (SHINKU KIKO KK) 26 November 1992 (26.11.1992) *(Abstract; fig. 1) [online][Retrieved on: 17.05.2010]. Retrieved from: EPOQUE EPODOC Database*	1-3,9,12,14, 17,19

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

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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.
A	EP 1100190 A2 (LG ELECTRONICS INC.) 16 May 2001 (16.05.2001) *Abstract; fig. 1; paragraphs 0026,0027;* ---	1-3,9,12,14, 17,19

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