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(54) **Title:** ADAPTIVE POLYPHASE MOTOR

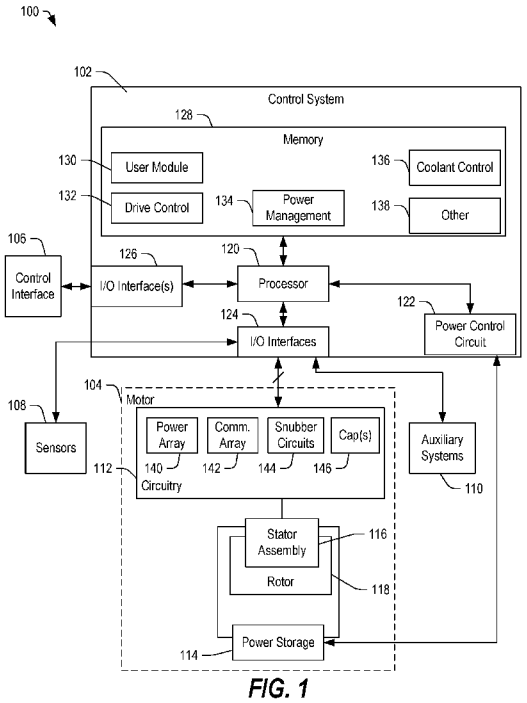


FIG. 1

(57) **Abstract:** In some embodiments, an electric motor may include a plurality of magnetic circuit modules, where each magnetic circuit module includes a rotor having a first magnetic array and a second magnetic array extending substantially parallel with one another and spaced apart by a channel. The electric motor may further include a stator including a coil assembly configured to fit within the channel and to provide an electromagnetic force within the channel to accelerate the magnetic arrays.

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CPC - H02P 6/10; G11B 19/20; B60L 3/106; B60L 11/1803

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)
See Search History Document

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2011/0037333 A1 (Atallah et al.) 17 February 2011 (17.02.2011), entire document, especially para. [0034]-[0037], FIG. 7	1-20
Y	US 2004/0232800 A1 (Seguchi et al.) 25 November 2004 (25.11.2004), entire document, especially para. [0075]-[0077], [0087], [0088]	1-20
Y	WO 2016/198858 A1 (ELUMOTION LTD.) 15 December 2016 (15.12.2016), para. [0024]	3, 10, 16
Y	US 2016/0197523 A1 (PERSIMMON TECHNOLOGIES CORP.) 07 July 2016 (07.07.2016), para. [0028]	4
Y	US 8,446,060 B1 (Lugg) 21 May 2013 (21.05.2013), col. 11, ln. 23 to col. 12, ln. 15	6, 14, 20
Y	US 6,646,406 B1 (Pollock et al.) 11 November 2003 (11.11.2003), col. 4, ln. 25-65	8, 13, 19

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