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(54) Title: INSPECTION ROBOT WITH MODULAR COMPONENTS AND HIGH CONFIGURABILITY

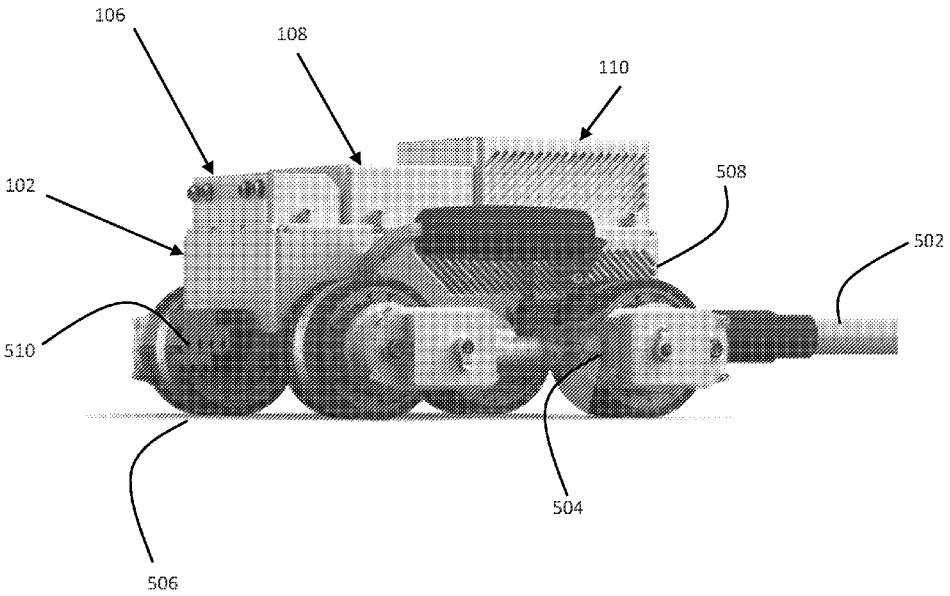


Fig. 5

(57) Abstract: A device may include a motive power module comprising a motive power device and a magnetic engagement device, coupled to a core module comprising a tether connection, a peripheral module interface, a power management component, and a data acquisition (DAQ) module interface. A device may include a peripheral module coupled to the peripheral module interface, the peripheral module comprising power coupling and communications coupling, and for a selected payload. A device may include a DAQ module coupled to the DAQ module interface, the DAQ module comprising a data acquisition circuit configured to collect, store, and/or transmit data from the selected payload to an external device.

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[Continued on next page]

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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
See Search History document

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y --- A	US 2015/0153312 A1 (Saudi Arabian Oil Company) 04 June 2015 (04.06.2015) entire document, especially: fig 1A, 3, 5A, 5B, 8, para [0046]-[0048], [0060], [0066]-[0069], [0075]	1-7, 9, 10, 15 ---------- 26, 27, 63 ---------- 8, 11-14, 16-25, 28-62, 64-82
Y --- A	US 2018/0172121 A1 (Google Inc.) 21 June 2018 (21.06.2018) entire document, especially: fig 15b, para [0038], para [0193]	26, 27 -------- 8, 11-14, 16-25, 28-62, 64-82
Y --- A	US 2022/0373122 A1 (SOUTHEAST UNIVERSITY) 24 November 2022 (24.11.2022) entire document, especially: Abstract, fig 1, fig, 2 para [0007], [0060]	63 ---- 8, 11-14, 16-25, 28-62, 64-82
A	US 2022/0341886 A1 (Gecko Robotics, Inc.) 27 October 2022 (27.10.2022) entire document, especially: para [0119], [0120]	1-82
A	US 2023/0128262 A1 (Lockheed Martin Corporation) 27 April 2023 (27.04.2023) entire document	1-82

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