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(71) Applicant *(for all designated States except US)*: **RLTEC LTD.** [GB/GB]; Level 1, 1 Pemberton Row, EC4A 3BG London (GB).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **HOWE, Andrew** [GB/GB]; Ambledown, Ridge Lane, Meopham, Kent DA 13 0DP (GB). **BLOOR, Katie** [GB/GB]; c/o RLtec Ltd., Level 1, 1 Pemberton Row, London EC4A 3BG (GB). **WARREN, Joe** [GB/GB]; c/o RLtec Ltd., Level 1, 1 Pemberton Row, London EC4A 3BG (GB). **NORRIS, Tim** [GB/NO]; c/o Acapo AS, P.O. Box 1880 Nordnes, N-5817 Bergen (NO).

(74) Agent: **ACAPO AS**; P.O. Box 1880 Nordnes, N-5817 Bergen (NO).

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(54) Title: RESPONSIVE LOAD MONITORING SYSTEM AND METHOD

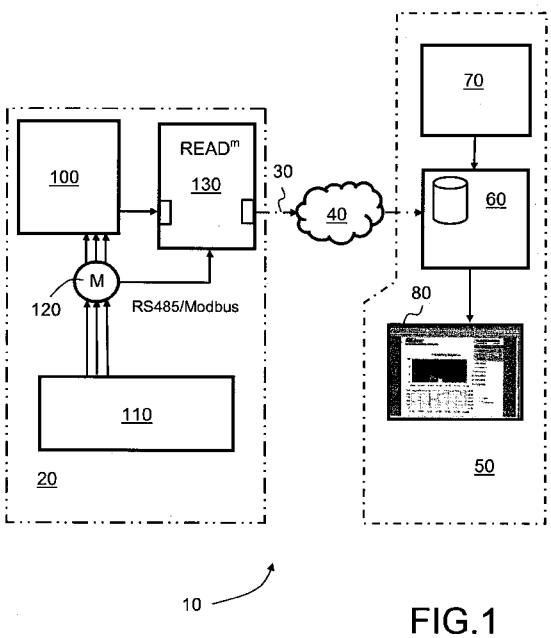


FIG.1

(57) Abstract: A system employs a method of determining a level of potential responsive-load electrical power network service susceptible to being provided by one or more power consuming devices (100). The method includes: (a) determining operating characteristics of power consuming devices; (b) developing a parameterized numerical model of operation of the power consuming devices based upon the determined operating characteristics; (c) developing an operating regime using the numerical model and a set of operating rules for the devices for providing responsive-load electrical power network service; (d) applying the operating regime to each of the devices; and (e) monitoring operating characteristics of the power consuming devices (100) after installation for verifying their responsive-load electrical power network service. Optionally, the devices are operable to function autonomously to provide their responsive- load electrical power network service. Optionally, the parameterized numerical model of operation describes a fullest extent to which the power consuming devices are capable of providing responsive-load electrical power network service.

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