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Not yet advised

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Other: **Not yet advised**

(54) Title of the Invention: **Method and apparatus for control of a synchronous permanent magnet motor, particularly over a long cable in a well**
Abstract Title: **Method and apparatus for control of a synchronous permanent magnet motor, particularly over a long cable in a well**

(57) A synchronous permanent magnet motor is controlled independently of position sensing means by determining the system parameters including the motor impedance and back-emf and the cable impedance and supplying power according to a predefined voltage : frequency ratio which is determined based on said system parameters to provide a desired rate of acceleration determined by the supply voltage.

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