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Abstract

Antenna assembly including a micro-motor

An antenna assembly includes a micro-motor having a rotor 101, a stator 120 and a drive mechanism for rotating the rotor relative to the stator. On the rotor
5 are formed at least two electrically conductive layers 104, 105 arranged to act as an antenna for generating a radio frequency (RF) electromagnetic beam. The two conductive layers 104, 105 are electrically coupled to respective portions 107, 109 of the stator, so that the voltage between the conductive
10 layers 104, 105 can be controlled (when an RF signal is to be transmitted) or measured (when an RF signal is to be received). The rotor 101 is a disk of polymer material having a wall 200 upstanding from it.

[Fig. 2(a)]