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ABSTRACT

ROTATING ELECTRIC MACHINE

5 A rotating electric machine comprising a stator having a first group of windings; a power
source for selectively energizing the first group of windings; and a rotor having a first permanent
magnet to be magnetically coupled with said first group of windings. The rotor also includes an
axis of rotation that passes perpendicularly through the center of the first permanent magnet and
the rotor is to rotate the first permanent magnet about the axis of rotation. The rotating electric
10 machine may be configured to work as an electric motor or an electric power generator, or both.
In either mode, the rotor is rotatable in the vacuum chamber therefore the magnetic interactions
between the winding and the permanent magnet can be improved.

(Figure 1)