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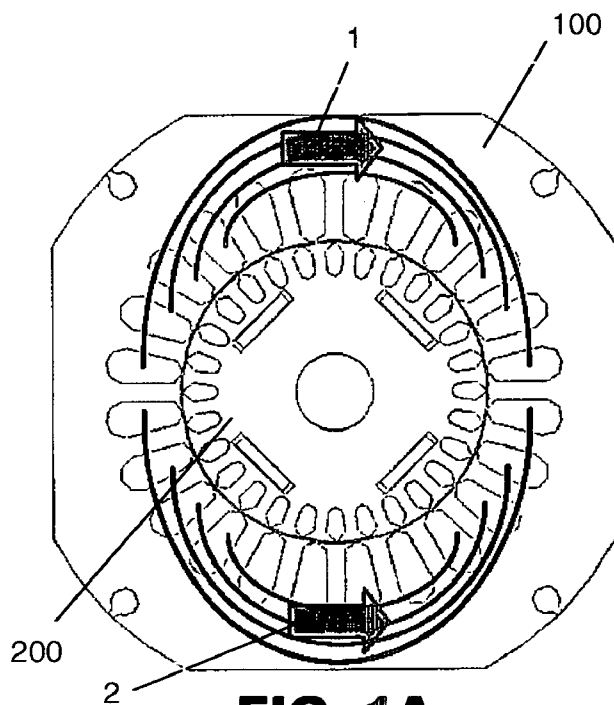
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(54) Title: MOTOR ABLE TO WORK SYNCHRONOUSLY AND AS INDUCTION MOTOR

**FIG. 1A**

(57) Abstract: The present invention relates to a motor that acts both as a synchronous motor and as an induction motor, and that comprises a stator (100) having coil windings, a rotor (200), where said rotor is a rotor with magnets (300, 310, 320, 330) generating 4 poles, and the windings of the stator (100) can be switched so as to change the number of poles. The subject motor acts as a synchronous motor when in low rotation and as an induction motor when in high rotation. During its operation as an induction motor, rotors (200) are utilized having a protuberance ratio near 1, generating a sufficient flux to reach good efficiency levels with 2 poles, which prevents the motor from having torque oscillations during its operation, providing a motor with a lighter operation and a better performance and less noise.



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