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(71) Applicant *(for all designated States except US)*: EMPRESA BRASILEIRA DE COMPRESSORES S.A. – EMBRACO [BR/BR]; Rua Rui Barbosa, 1020, CEP–89219–901 Joinville, SC (BR).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: MÖBIUS, Marcos, Romeu [BR/BR]; Rua Dilmar Penski, 705, CEP–89219–901 Joinville, SC (BR). VON DOKONAL, Luiz [BR/BR]; Apartamento 902/C, Rua Dr. João Collin, 2008, CEP–89219–901 Joinville, SC (BR). DE LIMA, Claudio, Werner [BR/BR]; Apartamento 502, Rua Afonso Pena, 871, CEP–89219–901 Joinville, SC (BR).

(74) Agents: ARNAUD, Antonio, M., P. et al.; 7th floor, Rua José Bonifácio, 93, CEP–01003–901 São Paulo, SP (BR).

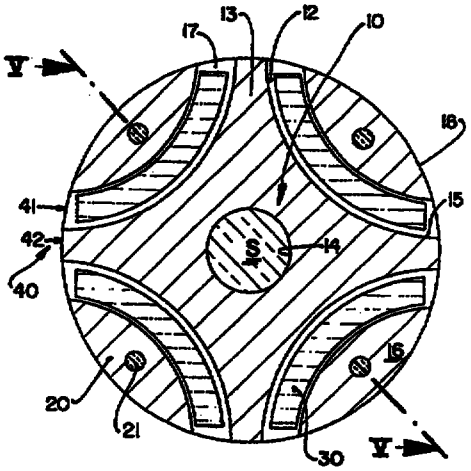
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(54) Title: AN ELECTRIC MOTOR ROTOR AND A METHOD FOR PRODUCING AN ELECTRIC MOTOR ROTOR



(57) Abstract

An electric motor rotor and a method for producing an electric motor rotor, said rotor comprising: a core (10), formed by a plurality of metallic laminations (11) of a magnetic material; polar peripheral portions (20) made of a magnetic material and affixed around the core (10); and an equal number of magnet elements (30) retained between the polar peripheral portions (20) and the core (10), the rotor having its cylindrical lateral surface defined by the polar peripheral portions (20), which are circumferentially spaced from each other, and by intermediate peripheral portions (40) provided between each two adjacent polar peripheral portions (20) and having throughout their longitudinal extensions reduced electrical conductibility and reduced magnetic permeability in relation to the core (10), at least in the regions connecting two adjacent polar peripheral portions (20). The rotor further comprises a pair of end caps (50) for retaining the polar peripheral portions (20) to the core (10).