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ABSTRACT OF THE DISCLOSURE

The present invention provides an ultra compact motor of a novel configuration, comprising a magnet which is formed in a cylindrical shape and is

5 circumferentially divided into n portions and alternately magnetized into different magnetic poles at least on the external periphery thereof, wherein a first coil, a rotor and a second coil are arranged in this order along the axial direction of the rotor, and

10 first external and internal magnetic poles magnetized by the first coil and so arranged as to oppose respectively to the external and internal peripheries at an end of the magnet while second external and internal magnetic poles magnetized by the second coil

15 are so arranged as to oppose respectively to the external and internal peripheries at the other end of the magnet.

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