

ABSTRACT OF DISCLOSURE

A motor comprises a magnet formed in a cylindrical shape and divided in the circumferential direction in at least the outer periphery and alternately polarized to different poles, a first coil, a magnet and a second coil placed in the axial direction of the magnet, a first outer magnetic pole opposed to the outer periphery of the magnet and a hollow-shaped first inner magnetic pole opposed to the inner periphery of the magnet, excited by the first coil respectively, a second outer magnetic pole opposed to the outer periphery of the magnet and a hollow-shaped second inner magnetic pole opposed to the inner periphery of the magnet, excited by the second coil respectively, a rotatable rotary shaft integral with the magnet, and a pressurizing means for pressurizing the rotary shaft in the axial direction, the pressurizing means being placed in the hollow cylindrical portion of the first inner magnetic pole. A motor having a high output, a compact shape and small working noises is provided.

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