

ROTARY VANE MOTOR

ABSTRACT

The present invention relates to a rotary motor, comprising a plurality of vanes, wherein each of the vanes is split into two subvanes, one or more elastic members, wherein the elastic member is configured to push each of the subvanes forming a vane toward an end plate to form a seal between the subvane and the end plate; an inner rotary member housing the plurality of vanes projecting from a central rotation axis of the inner rotor; a lobe member encompassing the inner rotary member and the plurality of vanes; a plurality of chambers wherein each of the chambers is encompassed by an inner surface of the lobe member and an outer surface of the inner rotary member; and one or more end plates to enclose the plurality of vanes, the inner rotary member, the lobe member and the plurality of chambers.

FIG. 1