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(54) Title: ROTOR SUPPORT AND VACUUM PUMP WITH SUCH A ROTOR SUPPORT

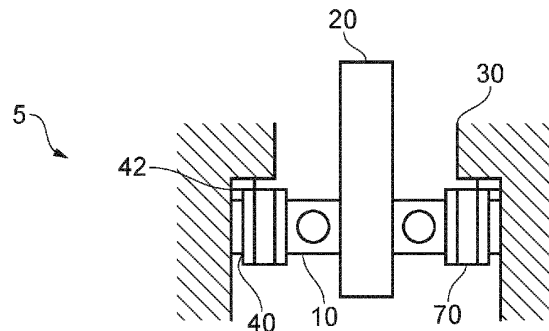


FIG. 1

(57) Abstract: A rotor support (5) configured to rotatably mount a rotor shaft (20) in a vacuum pump is disclosed. The rotor support (5) comprises: a rolling bearing (10) for rotatably supporting the shaft (20); an insert (70) and at least one resilient damping member (40), the insert (70) and the at least one resilient damping member (40) surrounding the rolling bearing (10). The insert (70) comprises inner and outer annular portions (54, 56) connected by a plurality of flexible members (58), the plurality of flexible members (58) being configured to flex in a radial plane and resist movement in an axial plane, thereby absorbing radial movement of the shaft (20). The at least one resilient damping member (40) is formed of an elastomeric material configured to flex in both a radial and axial direction.



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