

Title (en)
Improved centrifugal pump.

Title (de)
Verbesserte Kreispumpe.

Title (fr)
Pompe centrifuge améliorée.

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EP 0610826 A2 19940817 (EN)

Application
EP 94101718 A 19940204

Priority
IT PD930025 A 19930212

Abstract (en)
Improved centrifugal pump of the type comprising a supporting body (10) for a permanent-magnet synchronous motor with an impeller (49) coupled to its rotor (22), and for a volute (48) in which the impeller is accommodated. The body (10) and the volute (48) form a sealed housing which contains the rotor and the impeller in respective chambers, separating them from the stator part of the motor. The rotor (22) is rigidly coupled to a shaft (24) that rotates on sliding bearings (26,29) supported by elastic supports (27) which are locked in the corresponding chamber; one of these supports forms a ring for providing hydraulic sealing between the two chambers of the container. <IMAGE>

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Cited by
WO0183996A1; WO2006119761A1; EP3135916A1; DE19819723A1; EP1022841A3; EP1143148A3; US7052230B2; US2017279331A1; US10468940B2; CN102840141A; EP3056968A1; US11994350B2; US10267331B2; WO2010121407A1; US9927181B2; US11725886B2; US8245764B2; US9733681B2; US10078355B2; US10599196B2; US11287862B2; US7971632B2; US8240362B2; US9715260B2; US10078354B2; US10613601B2; US11287861B2

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