

Title (en)

THREE-GEAR PUMP SYSTEM FOR LOW VISCOSITY FLUIDS

Title (de)

DREI-GETRIEBE-PUMPENSYSTEM FÜR NIEDRIGVISKOSE FLÜSSIGKEITEN

Title (fr)

SYSTÈME DE POMPE À TROIS ROUES DENTÉES POUR FLUIDES À FAIBLE VISCOSITÉ

Publication

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Application

EP 15707497 A 20150219

Priority

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Abstract (en)

[origin: WO2015134194A1] A three-gear pump system (30) includes a housing and a three-gear configuration (30) within the housing that pumps fluid from a fluid inlet to a fluid outlet. The three-gear configuration (30) includes a center drive gear (32), a first driven gear (34) and a second driven gear (36) positioned on opposite sides of the drive gear (32). The driven gears (34,36) are radially supported within the housing by a bearing structure (48,50) for rotation of the driven gears about respective axes. The drive gear (32) is free to float radially relative to the driven gears (34,36). The bearing structure may include a plurality of sleeve bearings or ball bearings that radially support the gear shafts (40,42) of the driven gears (34,36). The drive gear (32) may have a larger diameter and a greater number of gear teeth as compared to the driven gears (34,36).

IPC 8 full level

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