

Title (en)
Toric pump.

Title (de)
Seitenkanalpumpe.

Title (fr)
Pompe à canal latéral.

Publication
EP 0608444 A1 19940803 (EN)

Application
EP 93101025 A 19930123

Priority
EP 93101025 A 19930123

Abstract (en)
A regenerative toric pump in which undesirable noise generation and leakage through clearance gaps between the impeller and housing is minimized includes an impeller having vanes lying in general planes radiating from the impeller axis disposed at variable spacings from each other in a geometrically balanced pattern. Recesses in one of opposed side surfaces on the impeller and housing are arranged in a pattern such as to minimize leakage through the clearance gap between those surfaces from points in the pump chamber which are at different pressures. <IMAGE>

IPC 1-7
F04D 5/00; **F04D 29/18**; **F04D 29/66**; **F04D 23/00**

IPC 8 full level
F04D 5/00 (2006.01); **F04D 23/00** (2006.01); **F04D 29/18** (2006.01); **F04D 29/66** (2006.01)

CPC (source: EP)
F04D 5/002 (2013.01); **F04D 23/008** (2013.01); **F04D 29/188** (2013.01); **F04D 29/669** (2013.01)

Citation (search report)
• [X] EP 0450362 A1 19911009 - COLTEC IND INC [US]
• [A] US 4872806 A 19891010 - YAMADA YUTAKA [JP], et al
• [A] AT 322718 B 19750610 - ROHS ULRICH DIPL ING [DE]
• [A] DE 3811990 A1 19881020 - SPECK PUMPENFABRIK WALTER SPEC [DE]

Cited by
KR100760054B1; WO0171193A1; US9086071B2; US9127685B2; US9334873B2

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DE GB

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