

Title (en)
Internal gear oil pump

Title (de)
Innenzahnradölpumpe

Title (fr)
Pompe à huile à engrenages internes

Publication
EP 1150014 A3 20020925 (DE)

Application
EP 01102016 A 20010130

Priority
DE 10020568 A 20000427

Abstract (en)
[origin: EP1150014A2] A compact oil pump for an IC engine has the ring gear (2) with inner gear teeth which mesh with a freely running inner gear wheel (1) and outer gear teeth (7) which are driven by a pinion driven by the engine. The two gears have axes eccentrically offset. The end faces of the pump are closed and fitted with oil ducts. The outer drive gear extends for part of the thickness of the ring gear and does not increase the axial size of the pump.

IPC 1-7
F04C 2/10; **F04C 15/00**

IPC 8 full level
F04C 2/10 (2006.01); **F04C 15/00** (2006.01)

CPC (source: EP)
F04C 2/102 (2013.01); **F04C 15/0061** (2013.01)

Citation (search report)

- [X] DE 29710407 U1 19970731 - VOITH TURBO KG [DE]
- [X] DE 669696 C 19390102 - LUDWIG GEB
- [X] US 3407741 A 19681029 - WEBER ROBERT L, et al
- [X] EP 0457490 A1 19911121 - CONCENTRIC PUMPS LTD [GB]
- [A] DE 2547994 A1 19770505 - SPERRY RAND CORP
- [X] PATENT ABSTRACTS OF JAPAN vol. 007, no. 029 (M - 191) 5 February 1983 (1983-02-05)

Cited by
GB2430237A; WO2006134337A1; WO2007128257A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

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