

Title (en)
INTERNAL GEAR PUMP

Publication
EP 0315878 B1 19920401 (DE)

Application
EP 88118185 A 19881102

Priority
• DE 3737961 A 19871107
• DE 3743153 A 19871219

Abstract (en)
[origin: EP0315878A2] The internal gear pump has a driving pinion (3) and an internal gear (1). On the pressure side the teeth engage with a contact ratio equal to or greater than 2 in such a way that a number of mutually sealed-off tooth cells are produced. Several of these tooth cells at least are each connected by means of a non-return valve to the common pressure duct. In order to reduce noise and to avoid impact pressures, the pinion and/or the internal gear are provided with recesses or slots which are arranged on the drive flanks and each connect the tooth heads to the tooth feet. <IMAGE>

IPC 1-7
F04C 2/10

IPC 8 full level
F04C 2/08 (2006.01); **F04C 2/10** (2006.01); **F04C 15/06** (2006.01)

CPC (source: EP)
F04C 2/088 (2013.01); **F04C 2/102** (2013.01); **F04C 15/068** (2013.01)

Cited by
EP0579981A1; DE102006047312A1; DE4107704A1; DE19804133A1; US6164943A

Designated contracting state (EPC)
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EP 0315878 A2 19890517; EP 0315878 A3 19900117; EP 0315878 B1 19920401; DE 3869737 D1 19920507

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