

Title (en)

Pump unit with two internal gear pumps

Title (de)

Innenzahnradpumpen umfassendes Pumpenaggregat

Title (fr)

Unité de pompage à deux pompes à engrenages internes

Publication

EP 1087138 A3 20020710 (DE)

Application

EP 00117422 A 20000811

Priority

DE 19945922 A 19990925

Abstract (en)

[origin: EP1087138A2] Two separate internal geared wheel pumps have internal rotors (5) with external toothing and linked drives and axles. One internal rotor has a device (6) for controlling interruption in a drive link. This device has a spring-loaded locking pin (9) sliding in the internal rotor's recess (7) and operating in conjunction with a turning stop (10) on a drive shaft (11). Affected by pump pressure, this pin interrupts a drive link when pump pressure is sufficiently high.

IPC 1-7

F04C 2/10; **F04C 11/00**; **F04C 15/00**

IPC 8 full level

F01M 1/02 (2006.01); **F04C 2/10** (2006.01); **F04C 11/00** (2006.01); **F04C 14/06** (2006.01); **F04C 15/00** (2006.01)

CPC (source: EP)

F04C 14/06 (2013.01); **F04C 2270/56** (2013.01)

Citation (search report)

- [A] DE 19620700 A1 19971127 - IAV MOTOR GMBH [DE]
- [A] DE 4134219 A1 19920430 - VOLKSWAGEN AG [DE]
- [PA] EP 0989303 A1 20000329 - PEUGEOT [FR], et al
- [A] PATENT ABSTRACTS OF JAPAN vol. 009, no. 209 (M - 407) 27 August 1985 (1985-08-27)

Cited by

EP1211419A3; DE102004024728B3; CN105179914A; US10236746B2; US10711795B2

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