

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 B1 20031015 (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)

Cited by

EP1211419A3; DE102004024728B3; CN105179914A; US10236746B2; US10711795B2

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**EP 1087138 A2 20010328**; **EP 1087138 A3 20020710**; **EP 1087138 B1 20031015**; DE 19945922 A1 20010329; DE 50004060 D1 20031120

DOCDB simple family (application)

**EP 00117422 A 20000811**; DE 19945922 A 19990925; DE 50004060 T 20000811