

Title (en)
ROTARY PISTON PUMP

Publication
EP 0523317 A3 19930804 (DE)

Application
EP 92104237 A 19920312

Priority
DE 4117506 A 19910529

Abstract (en)
[origin: EP0523317A2] A rotary piston pump (1) has single- or multiple-lobed delivery pistons (3, 4) which rotate in the pump casing (2) on two piston shafts (6, 7) arranged in parallel. A homokinetic gear system (12), which comprises two meshing gearwheels (13, 14), ensures a matched movement of said two piston shafts (6, 7) and the associated delivery pistons (3, 4). According to the invention, the homokinetic gear system (12) and the delivery chamber (5) are arranged adjacent to each other and without separation in such a way that the gearwheels (13, 14) of the homokinetic gear system (12) serve as auxiliary delivery wheels to the delivery pistons (3, 4). According to a particular further development of the invention, the rotary piston pump (1) has a split-cage drive, for example a split-cage clutch (20). Special lines (45) and ducts (36, 32) are provided, via which a shunted-off part stream is able to remove the lost heat of the split-cage drive. <IMAGE>

IPC 1-7
F04C 2/12

IPC 8 full level
F04C 2/12 (2006.01); **F04C 15/00** (2006.01)

CPC (source: EP)
F04C 2/126 (2013.01); **F04C 15/0061** (2013.01)

Citation (search report)
• [A] US 3146717 A 19640901 - TYREE JR LEWIS
• [A] US 2931310 A 19600405 - WALTON MUSSER C
• [A] US 2810348 A 19571022 - WHITE HOWARD T

Designated contracting state (EPC)
BE CH DE FR GB IT LI NL

DOCDB simple family (publication)
DE 4117506 A1 19921203; DE 59204807 D1 19960208; EP 0523317 A2 19930120; EP 0523317 A3 19930804; EP 0523317 B1 19951227

DOCDB simple family (application)
DE 4117506 A 19910529; DE 59204807 T 19920312; EP 92104237 A 19920312