

Title (en)
A pump with a piston guide

Title (de)
Pumpe mit Kolbenführung

Title (fr)
Pompe dotée d'une guide de piston

Publication
EP 2466138 A1 20120620 (EN)

Application
EP 11192008 A 20111205

Priority
IT RE20100097 A 20101216

Abstract (en)
A pump (10) comprising a casing (20) to which at least an alternating piston (30) is slidably associated, which piston (30) is destined to delimit, internally of the casing (20), an operating chamber (21) communicating with an inlet (22) and with an outlet (23) for a fluid to be pumped, two annular seals (60, 61) being fixed to the casing (20) and inserted coaxially on the piston (30), and a guide ring (70) inserted coaxially on the piston (30) and fixed to the casing (20) between the annular seals (60, 61), the guide ring (70) comprising a layer (73) containing teflon, which layer (73) defines a cylindrical surface (74) of the guide ring (70) destined to be in contact with a cylindrical surface (36) of the piston (30), the teflon being inserted between the pores of a porous metal material.

IPC 8 full level
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CPC (source: EP)
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Citation (search report)
• [Y] EP 0770778 A2 19970502 - WAGNER SPRAY TECH CORP [US]
• [Y] FR 1421513 A 19651217 - HISPANO SUIZA SA
• [Y] DE 4301126 A1 19940721 - DANFOSS AS [DK]
• [Y] GB 2146096 A 19850411 - HELIX TECH CORP
• [Y] US 3279936 A 19661018 - FORESTEK CLARENCE W
• [Y] GB 994715 A 19650610 - FAIRBANKS MORSE INC
• [Y] DE 962561 C 19570523 - GLACIER CO LTD
• [Y] US 3341348 A 19670912 - LETENDRE CALVIN O
• [Y] GB 1237962 A 19710707

Cited by
IT201600064747A1; ITRE20120078A1; EP2728190A1; WO2022172097A1

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