

Title (en)
Multi-cylinder reciprocating pump with axial pistons.

Title (de)
Axialkolben-Mehrzylinder-Verdrängerpumpe.

Title (fr)
Pompe alternative multicylindre à pistons axiaux.

Publication
EP 0657648 A1 19950614 (EN)

Application
EP 94202158 A 19940725

Priority
IT RE930085 A 19931210

Abstract (en)
The pump comprises, for operating the pistons (10), a linkage of the type provided with a surface (12) rigid with the motion input shaft and inclined to the plane perpendicular to the axis of the shaft (11), said inclined surface (12) acting with unilateral bearing constraints on the rear end of the pistons (10) to implement their outward stroke; a plate (20) constrained to the rear end of each piston (10) by a bearing constraint which subjects the piston (10) to a reaction with a component parallel to the piston axis and in the same direction as the return stroke of the piston (10); the central portion of the plate (20) rests on a fulcrum element (30) coaxial to the shaft (11) and arranged to subject the plate (20) to a reaction with a component parallel to the axes of the pistons and having the same direction as the return stroke of the pistons (10). <IMAGE>

IPC 1-7
F04B 1/12

IPC 8 full level
F04B 1/12 (2006.01)

CPC (source: EP)
F04B 1/126 (2013.01)

Citation (search report)
• [X] FR 2657125 A1 19910719 - LEDUC RENE HYDRO SA [FR]
• [A] FR 2402777 A1 19790406 - LEDUC & FILS RENE [FR]
• [A] FR 2604488 A1 19880401 - KARL MARX STADT IND WERKE [DD]

Cited by
EP0867616A3

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB IT LI NL PT SE

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EP 0657648 A1 19950614; IT 1262843 B 19960704; IT RE930085 A0 19931210; IT RE930085 A1 19950610

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