

Title (en)
Free piston machines.

Title (de)
Freikolbenwerkzeug.

Title (fr)
Machine à piston libre.

Publication
EP 0040026 A1 19811118 (EN)

Application
EP 81301919 A 19810430

Priority
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• GB 8040286 A 19801216

Abstract (en)
A free piston machine of the valveless type using piston wall ports and cooperative flow passages in the cylinder wall for supplying live pressure fluid to the piston working chamber and for exhausting the power working chamber is characterised by an axial pressure fluid supply line (10) that enters and has open termination within a pressure recess (11, 11a) to cooperate therewith in accordance with the motion of the piston to control the flow of pressure fluid to the power working chamber of the machine. The supply line (10) may be fixed to the body of the machine and cooperate with a pressure recess (11) in the piston, or the supply line may be carried by the piston to move therewith and to cooperate with a pressure recess (11a) in the machine body.

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E21B 4/14

IPC 8 full level
E21B 4/14 (2006.01)

CPC (source: EP)
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Citation (search report)
• US 3970153 A 19760720 - GIEN ABRAHAM, et al
• GB 749328 A 19560523 - HUGHES TOOL CO
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EP 81301919 A 19810430; AU 7025881 A 19810508; CA 377180 A 19810508; ES 502022 A 19810508; PT 7300381 A 19810508