

Title (en)
Pneumatic cylinder

Title (de)
Pneumatikzylinder

Title (fr)
Vérin à air

Publication
EP 0562503 B1 20011107 (DE)

Application
EP 93104606 A 19930320

Priority
DE 4209493 A 19920324

Abstract (en)
[origin: US5370039A] A short travel pneumatic cylinder device for transmitting a high force, comprising a cylinder housing having a cylindrical bore for guiding of the piston and of the piston rod, two pistons which upon generation of an overatmospheric pressure between the pistons will move in opposite direction, and further comprising a mechanical lever system with a housing cover. The first of the pistons is connected with the piston rod, and the second of the two pistons is arranged coaxially relative to the first piston, is hollow, and is movable coaxially relative to the piston rod. The first of the two pistons is connected to the lever system at the side of the interior of the cylinder opposite to the second of the two pistons. The pressure force exerted by the second piston is transmitted to the piston rod via the lever system in a direction opposite to the direction of movement of the second piston.

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F15B 15/02; **F15B 15/20**

IPC 8 full level
F15B 15/14 (2006.01); **F15B 15/02** (2006.01)

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US 5370039 A 19941206; AT E208462 T1 20011115; DE 4209493 C1 19930519; EP 0562503 A1 19930929; EP 0562503 B1 20011107; JP 2583725 B2 19970219; JP H06101701 A 19940412

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