

Title (en)  
PNEUMATIC CYLINDER, IN PARTICULAR FOR ACTUATING FUME EXTRACTION VALVES IN FUME AND HEAT EXTRACTION PLANTS

Title (de)  
DRUCKLUFTZYLINDER, INSBESONDERE ZUR BETÄTIGUNG VON RAUCHABZUGSKLAPPEN IN RAUCH- UND WÄRMEABZUGSANLAGEN

Title (fr)  
CYLINDRE PNEUMATIQUE, SERVANT NOTAMMENT A ACTIONNER DES VOILETS DE CANAUX DE FUMÉES DANS DES INSTALLATIONS D'ÉVACUATION DE FUMÉES ET DE CHALEUR

Publication  
**EP 0894200 A1 19990203 (DE)**

Application  
**EP 97921772 A 19970425**

Priority  
• DE 19617058 A 19960429  
• EP 9702140 W 19970425

Abstract (en)  
[origin: WO9741357A1] A pneumatic cylinder for actuating fume extraction valves in fume and heat extraction plants has a piston (2) that may be actuated from both sides with at least one working surface and that can be made to slide by pressurised air in a cylinder (1) with at least one working chamber (4), as well as an energy accumulator with regulating means. The regulating means can be controlled by control means to open or keep open the fume extraction valves. In order to obtain a compact pneumatic cylinder for a fume and heat extraction plant which is easy to install, a storage chamber in which air or pressurised air is stored as compressible pressure medium is provided as energy accumulator. The storage chamber is in communication with a compression surface (7) of the piston (2), at its side opposite to the working surface (7), so that pressure medium may flow between the storage chamber and the compression surface (7). The controller actuates a venting valve in communication with the working chamber (4) so that pressurised air may flow between the venting valve and the working chamber (4).

IPC 1-7  
**F15B 1/24**; **A62C 2/24**; **E05F 15/04**

IPC 8 full level  
**A62C 2/24** (2006.01); **E05F 15/04** (2006.01); **E05F 15/50** (2015.01); **E05F 15/72** (2015.01); **F15B 1/24** (2006.01); **F15B 11/02** (2006.01); **F15B 15/20** (2006.01); **F15B 15/22** (2006.01)

IPC 8 main group level  
**F15B 1/00** (2006.01)

CPC (source: EP)  
**A62C 2/248** (2013.01); **E05F 15/72** (2015.01); **F15B 15/204** (2013.01); **E05F 15/53** (2015.01); **E05Y 2201/422** (2013.01); **E05Y 2201/448** (2013.01); **E05Y 2900/148** (2013.01)

Citation (search report)  
See references of WO 9741357A1

Designated contracting state (EPC)  
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**WO 9741357 A1 19971106**; AT E219820 T1 20020715; CZ 296160 B6 20060111; CZ 345498 A3 19990217; DE 19617058 A1 19971030; DE 59707600 D1 20020801; EP 0894200 A1 19990203; EP 0894200 B1 20020626; JP 2001511233 A 20010807; JP 4026855 B2 20071226; PL 183929 B1 20020830; PL 329729 A1 19990412; SI 9720033 A 19990430

DOCDB simple family (application)  
**EP 9702140 W 19970425**; AT 97921772 T 19970425; CZ 345498 A 19970425; DE 19617058 A 19960429; DE 59707600 T 19970425; EP 97921772 A 19970425; JP 51014798 A 19970425; PL 32972997 A 19970425; SI 9720033 A 19970425