

Title (en)

A pressure medium controlled operator device for opening and closing a roof window or a hatch

Title (de)

Druckmittelbetätigtes Vorrichtung zum Öffnen und Schliessen ein Dachfensters oder einer Luke

Title (fr)

Dispositif actionné par un fluide sous pression pour l'ouverture et la fermeture d'une lucarne ou d'une trappe

Publication

EP 0692640 A3 19970730 (EN)

Application

EP 95610033 A 19950612

Priority

DK 68094 A 19940614

Abstract (en)

[origin: EP0692640A2] The invention provides an operator device having a cylinder (1) and a piston which is axially displaceable therein and connected with a piston rod (10) for opening a roof window or a hatch. By pressure medium supply to the cylinder, the piston can be actuated for movement between a first end position, in which the window or the hatch is closed, and a second end position corresponding to an open position of the window or the hatch. In the cylinder, a spring-loaded locking mechanism is arranged which is actuated against the spring load by the movement of the piston in a direction towards the second end position, so as to block the piston in this position. A single locking mechanism is used, which is so designed that it can only be deactivated by pressure medium supply to the cylinder. The locking mechanism may be formed as a ball lock having a number of locking balls which are made to block the movement of the piston at movement of the piston. At the supply of pressure medium the balls are released so that the piston can be moved back to its starting position. The locking mechanism can be optionally placed as a bottom or top lock to enable its application for all types of windows or hatches. <MATH>

IPC 1-7

F15B 15/26

IPC 8 full level

E05F 15/53 (2015.01); **F15B 15/26** (2006.01)

CPC (source: EP)

E05F 15/53 (2015.01); **F15B 15/261** (2013.01); **E05Y 2900/152** (2013.01)

Citation (search report)

- [Y] DE 4107980 A1 19920917 - BOSCH GMBH ROBERT [DE]
- [Y] DE 2906819 A1 19800904 - EHP HUGO KRUEGER KG ELEKTRIK H
- [Y] US 4951552 A 19900828 - FOX ANTON F [CA]
- [A] EP 0027211 A1 19810422 - KNORR BREMSE GMBH [DE]
- [A] EP 0170873 A1 19860212 - KNORR BREMSE AG [DE]
- [A] US 5097748 A 19920324 - KOCH GEORG [DE], et al
- [D/A] EP 0363575 A1 19900418 - GRASL OTTO [AT]
- [A] FR 2104744 A7 19720421 - OTTO URSULA

Cited by

US8833011B2; EP1548220A1; FR3114833A1; EP2472028A2; US8720134B2; US9140050B2; EP2472043A1; EP3225770B1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0692640 A2 19960117; EP 0692640 A3 19970730; FI 952895 A0 19950613; FI 952895 A 19951215; NO 952322 D0 19950613; NO 952322 L 19951215

DOCDB simple family (application)

EP 95610033 A 19950612; FI 952895 A 19950613; NO 952322 A 19950613