

Title (en)
REVERSIBLE PNEUMATIC MOTOR ASSEMBLY

Title (de)
UMSTEURBARE PNEUMATISCHE MOTORANORDNUNG

Title (fr)
ENSEMBLE MOTEUR PNEUMATIQUE REVERSIBLE

Publication
EP 1137865 B1 20030402 (EN)

Application
EP 99964130 A 19991206

Priority
• US 9928915 W 19991206
• US 1118498 P 19981207

Abstract (en)
[origin: WO0034627A1] A reversible pneumatic motor assembly allows forward, reversing and throttling of a pneumatic motor by manipulation of a single lever with one hand. A reversing valve assembly of the motor assembly includes a tilt valve disposed in an inlet passage having a valve seat for receiving the valve to block the inlet passage. Forward and reverse passages extend from the valve assembly to the motor for driving the motor in forward and reverse directions. A shuttle connected to the lever can be moved transversely of the motor assembly. The shuttle and tilt valve are mounted for movement upon actuation of the actuator between a first position in which the tilt valve is tilted about an axis off of the valve seat and the shuttle is disposed to form a continuous air flow path from the inlet passage, through the shuttle and into the forward passage for driving the motor in the forward direction, a second position in which the tilt valve is tilted about the axis off of the valve seat and the shuttle is disposed to form a continuous air flow path from the inlet passage, through the shuttle and into the reverse passage for driving the motor in the reverse direction, and a third position in which the tilt valve seats on the valve seat to prevent flow of air from the inlet passage to the motor.

IPC 1-7
F01C 13/02; **F01C 21/16**

IPC 8 full level
F01C 20/00 (2006.01); **F01C 13/02** (2006.01); **F01C 20/04** (2006.01); **F01C 20/06** (2006.01); **F01C 20/08** (2006.01); **F01C 21/18** (2006.01)

CPC (source: EP)
F01C 13/02 (2013.01); **F01C 20/04** (2013.01); **F01C 20/06** (2013.01); **F01C 21/18** (2013.01)

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

DOCDB simple family (publication)
WO 0034627 A1 20000615; AT E236345 T1 20030415; DE 69906576 D1 20030508; DE 69906576 T2 20031127; EP 1137865 A1 20011004; EP 1137865 B1 20030402; JP 2002531759 A 20020924; JP 3779877 B2 20060531

DOCDB simple family (application)
US 9928915 W 19991206; AT 99964130 T 19991206; DE 69906576 T 19991206; EP 99964130 A 19991206; JP 2000587051 A 19991206