

Title (en)  
Pneumatic oscillator

Title (de)  
Pneumatische Oszillatorvorrichtung

Title (fr)  
Oscillateur pneumatique

Publication  
**EP 1657452 A1 20060517 (DE)**

Application  
**EP 04026664 A 20041110**

Priority  
EP 04026664 A 20041110

Abstract (en)  
The oscillator has housing (2) in which an oscillation chamber (3) is provided. An oscillator piston (13) is arranged linearly in the chamber. The chamber divides axially into operating chambers (14a, 14b). The piston functions as a valve unit so that it is connected position dependently with the operating chambers so that the pressure differences, opposing each other in the two end positions, lie between the operating chambers.

IPC 8 full level  
**F15B 15/04** (2006.01); **F01B 11/00** (2006.01); **F01B 23/10** (2006.01); **F15B 15/22** (2006.01)

CPC (source: EP)  
**F15B 15/04** (2013.01); **F15B 15/224** (2013.01)

Citation (applicant)  
• EP 0638145 B1 19970226 - HR TEXTRON INC [US]  
• DE 19636207 C2 20000803 - SAMSON AG [DE]

Citation (search report)  
• [XY] US 835290 A 19061106 - RICHWOOD CLARENCE H [US]  
• [Y] CH 337157 A 19590315 - MOHR RUDOLF DR [DE]  
• [Y] US 2763060 A 19560918 - SWANSON BERNARD A  
• [Y] EP 1071195 A2 20010124 - WESTINGHOUSE AIR BRAKE CO [US]  
• [A] US 385113 A 18880626  
• [AD] US 5195560 A 19930323 - ACHMAD MUCHLIS [US]  
• [AD] DE 19636207 A1 19980312 - SAMSON AG [DE]

Cited by  
CN107014583A; CN107917928A; CN109114067A; WO2011056855A1

Designated contracting state (EPC)  
DE DK FR GB IT

DOCDB simple family (publication)  
**EP 1657452 A1 20060517**; **EP 1657452 B1 20071212**; DE 502004005715 D1 20080124; DK 1657452 T3 20080107

DOCDB simple family (application)  
**EP 04026664 A 20041110**; DE 502004005715 T 20041110; DK 04026664 T 20041110