

Title (en)
Self-actuating ring valve

Title (de)
Selbsttätiges Ringventil

Title (fr)
Soupape annulaire automatique

Publication
EP 1939451 A2 20080702 (DE)

Application
EP 07120308 A 20071109

Priority
AT 21262006 A 20061222

Abstract (en)
The valve has a valve element with a sealing element made from concentric sealing rings (5) connected with a valve seat. A synchronizing plate (7) is arranged on an opposite side of the sealing rings to face the valve seat. A metallic separation plate (6) is arranged in a valve element between the synchronizing plate (7) and the sealing rings (5). The sealing rings, a separating plate (6) and the synchronizing plate are arranged to lie loosely against one another. The synchronizing plate is made from fiber synthetic material reinforced synthetic material.

Abstract (de)
Um bei einem selbsttätigen Ringventil mit Dichtringen 5 als Dichtelemente und einer Synchronplatte 7 zur Synchronisation und Dämpfung der Ringöffnungsbewegung den gegenseitigen Verschleiß von Dichtringen 5 und der Synchronplatte 7 zu verhindern, wird zwischen den Dichtringen 5 und der Synchronplatte 7 eine metallische Trennplatte 6 angeordnet.

IPC 8 full level
F04B 39/10 (2006.01); **F16K 15/08** (2006.01)

CPC (source: EP US)
F04B 39/1033 (2013.01 - EP US); **F04B 39/1053** (2013.01 - EP US); **F04B 39/1066** (2013.01 - EP US); **Y10T 137/786** (2015.04 - EP US); **Y10T 137/7935** (2015.04 - EP US)

Citation (applicant)
• EP 0300989 A1 19890125 - ENFO GRUNDLAGEN FORSCHUNGS AG [CH]
• AT 391928 B 19901227 - HOERBIGER VENTILWERKE AG [AT]
• EP 0345245 A2 19891206 - HOERBIGER VENTILWERKE AG [AT]
• US 3369563 A 19680220 - ALOIS DEMINGER

Cited by
EP2466137A1; EP2249036A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 1939451 A2 20080702; **EP 1939451 A3 20121010**; AT 504693 A1 20080715; AT 504693 B1 20090215; CN 101225812 A 20080723; CN 101225812 B 20130130; US 2008149196 A1 20080626; US 7886764 B2 20110215

DOCDB simple family (application)
EP 07120308 A 20071109; AT 21262006 A 20061222; CN 200710159918 A 20071220; US 98791407 A 20071205