

Title (en)  
Valve assembly

Title (de)  
Ventileinrichtung

Title (fr)  
Dispositif de soupape

Publication  
**EP 1018384 B1 20030813 (DE)**

Application  
**EP 99811191 A 19991222**

Priority  
CH 1499 A 19990106

Abstract (en)  
[origin: EP1018384A1] Valve arrangement (1) has a ventilating channel (10), a ventilating valve (4) arranged in the channel and provide with a closing part (42), and an operating device to close the ventilating valve. The operating device has an element (6) pre-tensioned against a buffer (7) and connected to the closing part. The buffer is actuated by foreign material and casting material so that the closing part is opened or closed under the action of the operating element.

IPC 1-7  
**B22D 17/14**

IPC 8 full level  
**B22D 17/22** (2006.01); **B22D 17/14** (2006.01)

CPC (source: EP US)  
**B22D 17/145** (2013.01 - EP US)

Cited by  
EP1295655A1; SG113433A1; US6823930B2

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)  
**EP 1018384 A1 20000712; EP 1018384 B1 20030813**; AT E246974 T1 20030815; CA 2293108 A1 20000706; DE 59906583 D1 20030918; JP 2000202609 A 20000725; TW 418137 B 20010111; US 6513568 B1 20030204

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**EP 99811191 A 19991222**; AT 99811191 T 19991222; CA 2293108 A 19991223; DE 59906583 T 19991222; JP 2000000732 A 20000106; TW 88123383 A 19991231; US 47421899 A 19991229