

Title (en)  
Two-part valve stem seal

Title (de)  
Zweiteilige Ventilschaftdichtung

Title (fr)  
Joint de tige de soupape en deux parties

Publication  
**EP 0877150 B1 20020403 (DE)**

Application  
**EP 97114653 A 19970823**

Priority  
US 85283697 A 19970507

Abstract (en)  
[origin: US5775284A] A two piece valve stem seal assembly including a first rigid cylindrical shell having a flange portion and an end wall at a top portion. The valve stem seal assembly also includes a second rigid cylindrical shell having an outwardly radially extending seat portion and an inner radially extending flange. The valve stem seal assembly also including a resilient sealing body directly bonded with said first rigid cylindrical shell.

IPC 1-7  
**F01L 3/08**

IPC 8 full level  
**F01L 3/08** (2006.01)

CPC (source: EP US)  
**F01L 3/08** (2013.01 - EP US)

Cited by  
DE10325764B3; WO2004109067A1

Designated contracting state (EPC)  
AT DE DK ES FI FR GB IE IT NL SE

DOCDB simple family (publication)  
**US 5775284 A 19980707**; AT E215666 T1 20020415; DE 59706866 D1 20020508; DK 0877150 T3 20020729; EP 0877150 A1 19981111; EP 0877150 B1 20020403; ES 2175236 T3 20021116

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**US 85283697 A 19970507**; AT 97114653 T 19970823; DE 59706866 T 19970823; DK 97114653 T 19970823; EP 97114653 A 19970823; ES 97114653 T 19970823