Title (en)
Sealing ring assembly with sealing means, integrated cushioning means and end cap for a pneumatic cylinder

Title (de)
Dichtringanordnung mit Dichtung, integrierter Endlagendämpfung und Deckel, für einen Pneumatikzylinder

Title (fr)
Ensemble de joint d'étanchéité avec joint, amortisseur de fin de course et fond pour un vérin pneumatique

Publication
EP 1918592 B1 20101013 (DE)

Application
EP 06022912 A 20061103

Priority
EP 06022912 A 20061103

Abstract (en)
[origin: EP1918592A1] The ring has a damping buffer (1) for a piston (2) with a pressurizing medium, where the piston is axially reciprocated in a cylinder tube (3). A static seal (4) seals the cylinder tube opposite to a cover (5) that is connected to a front side of the cylinder tube. A dynamic seal (6) with a dynamically loaded sealing rim (7) is attached to a sealing surface (8) of a damping pin (9), which is connected with the piston, during intended use of the sealing ring. A flow-conductive connection port (10) connects axial front faces (11, 12) of the sealing ring.

IPC 8 full level
F15B 15/22 (2006.01); **F16J 15/3204** (2016.01); **F16J 15/3232** (2016.01); **F16J 15/3236** (2016.01)

CPC (source: EP US)
F15B 15/1442 (2013.01 - EP US); **F15B 15/223** (2013.01 - EP US)

Cited by
DE102009014817A1; DE102012103595A1; DE102012103595B4; DE102009014817B4; EP2657541A2

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 NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1918592 A1 20080507; **EP 1918592 B1 20101013**; **EP 1918592 B2 20140101**; AT E484682 T1 20101015; DE 502006008098 D1 20101125; JP 2008116050 A 20080522; JP 4847431 B2 20111228; TW 200837297 A 20080916; US 2008122187 A1 20080529; US 2011074114 A1 20110331; US 7866252 B2 20110111; US 8234970 B2 20120807

DOCDB simple family (application)
EP 06022912 A 20061103; AT 06022912 T 20061103; DE 502006008098 T 20061103; JP 2007286928 A 20071105; TW 96136999 A 20071003; US 95885910 A 20101202; US 98215807 A 20071101