

Title (en)  
Fluid actuator

Title (de)  
Fluidischer Antrieb

Title (fr)  
Actionneur à fluide

Publication  
**EP 1519055 B1 20090114 (DE)**

Application  
**EP 04021291 A 20040908**

Priority  
DE 10345587 A 20030929

Abstract (en)  
[origin: EP1519055A2] The fluid drive between two relatively movable components has at least one hydraulic or pneumatic drive element consisting of a hollow component (1) which is formed at least partially like a bellows. Stretch resistant ring elements (4) encompass the hollow component in each individual fold, and the stretch resistant ring on at least one side of the hollow component is connected via an extension resistant connection to at least one of the two force action sections (3) of the drive element. An independent claim is included for an articulated drive incorporating the proposed fluid drive for two components interconnected by a joint.

IPC 8 full level  
**F15B 15/10** (2006.01)

CPC (source: EP US)  
**F15B 15/103** (2013.01 - EP US)

Cited by  
DE102013006166A1; CN106256076A; US2023088911A1; US11732735B2; WO2008083711A1

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

DOCDB simple family (publication)  
**EP 1519055 A2 20050330; EP 1519055 A3 20051026; EP 1519055 B1 20090114**; AT E421044 T1 20090115; DE 10345587 A1 20050512; DE 502004008856 D1 20090305; US 2005066810 A1 20050331; US 7086322 B2 20060808

DOCDB simple family (application)  
**EP 04021291 A 20040908**; AT 04021291 T 20040908; DE 10345587 A 20030929; DE 502004008856 T 20040908; US 95241904 A 20040928