

Title (en)  
PILOT OPERATED DIRECTIONAL CONTROL VALVE

Publication  
**EP 0100137 B1 19870304 (EN)**

Application  
**EP 83303067 A 19830527**

Priority  
US 40274182 A 19820728

Abstract (en)  
[origin: EP0100137A2] Directional control valve (1) includes a manually operated pilot valve stage (31) and a hydraulically operated power valve stage (32) to isolate the pilot valve stage from the effects of the high axial flows passing through the power valve stage. The pilot valve (72) is spring loaded in the stow direction as long as the directional control valve is disconnected from system pressure. Such spring (105) also acts as a stowed condition linkage pre-tensioner to avoid fretting of various parts during vibration conditions and the like. When system pressure is applied to the directional control valve, such preload is automatically removed from the pilot valve (72) for ease of movement between the stow and deploy positions by a relatively low manual input rotary force.

IPC 1-7  
**F15B 13/042**

IPC 8 full level  
**F16K 31/143** (2006.01); **B64D 33/00** (2006.01); **F15B 13/042** (2006.01)

CPC (source: EP)  
**F15B 13/0422** (2013.01)

Citation (examination)  
DE 2233922 B2 19750116

Cited by  
US11037114B2; US11727372B2

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**EP 0100137 A2 19840208; EP 0100137 A3 19840411; EP 0100137 B1 19870304**; DE 3370060 D1 19870409; JP S5923173 A 19840206

DOCDB simple family (application)  
**EP 83303067 A 19830527**; DE 3370060 T 19830527; JP 10797783 A 19830617