

Title (en)  
Hydraulic control valve device

Title (de)  
Hydraulische Steuerventileinrichtung

Title (fr)  
Dispositif de vanne de commande hydraulique

Publication  
**EP 2503161 B1 20171004 (DE)**

Application  
**EP 12157756 A 20120301**

Priority  
DE 102011014685 A 20110322

Abstract (en)  
[origin: EP2503161A2] The hydraulic control valve device (1) has a throttling control valve (2), which is arranged in an intermediate position with a conveying line (3) and a pump (4), where an outlet side fitting tight counter-balance valve (15a) is arranged in the direction of a flow position (18a) for being operated with a control pressure (pA) of the control valve. Multiple throttle units (21a,21b,23a,23b) are formed as diaphragms or nozzles.

IPC 8 full level  
**F15B 11/00** (2006.01)

CPC (source: EP)  
**F15B 11/003** (2013.01); **F15B 2211/30515** (2013.01); **F15B 2211/50527** (2013.01); **F15B 2211/7053** (2013.01)

Cited by  
EP3004470A4; US10316929B2; US10323663B2; US11209027B2; US11209028B2; US11536298B2; US9810242B2; US10502239B2; US11028861B2; US10036407B2; US10724552B2; US11326627B2; US10344783B2; US11047406B2; US11204048B2; US11566642B2

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**EP 2503161 A2 20120926; EP 2503161 A3 20160210; EP 2503161 B1 20171004;** CN 102691683 A 20120926; CN 102691683 B 20160203;  
DE 102011014685 A1 20120927; JP 2012197937 A 20121018; JP 5959252 B2 20160802

DOCDB simple family (application)  
**EP 12157756 A 20120301;** CN 201210055999 A 20120228; DE 102011014685 A 20110322; JP 2012063458 A 20120321