

Title (en)  
HYDRAULIC DRIVE DEVICE FOR CONSTRUCTION MACHINE

Title (de)  
HYDRAULISCHE ANTRIEBSVORRICHTUNG FÜR EINE BAUMASCHINE

Title (fr)  
DISPOSITIF À COMMANDE HYDRAULIQUE POUR MACHINE DE CONSTRUCTION

Publication  
**EP 2636910 A1 20130911 (EN)**

Application  
**EP 11837981 A 20111031**

Priority

- JP 2010248558 A 20101105
- JP 2011075078 W 20111031

Abstract (en)  
[Problem] To permit guiding oil of a high pressure in an oil passage section, which communicates a valve device and a filter to each other, to a relief valve by a relatively inexpensive structure even when clogging occurs in a filter arranged in an oil passage communicating the valve device and the relief valve to each other. [Solution] A hydraulic pump (20) and a charge valve (25), to which pressure oil is fed from the hydraulic pump (20) via an oil passage (26), are arranged. Arranged in the charge valve (25) are a valve device, for example, an on/off valve (33) switchable according to pressure oil delivered from the hydraulic pump (20), a relief valve (34) specifying a maximum of switching pressure for the on/off valve (33), and a filter (36) arranged in an oil passage (35) communicating the on/off valve (33) and the relief valve (34) to each other. In the oil passage (35), a check valve (37) is arranged in parallel with the filter (36) such that a flow of pressure oil from a side of the on/off valve (33) toward a side of the relief valve (34) is allowed but a flow of pressure oil from the side of the relief valve (34) toward the side of the on/off valve (33) is prevented.

IPC 8 full level  
**B01D 35/147** (2006.01); **E02F 9/22** (2006.01); **F15B 11/028** (2006.01); **F15B 21/041** (2019.01)

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