

Title (en)  
Hydraulic control system for a working machine

Title (de)  
Hydraulische Steueranordnung für eine mobile Arbeitsmaschine

Title (fr)  
Dispositif de commande hydraulique pour une machine de travail

Publication  
**EP 1375926 B1 20071205 (DE)**

Application  
**EP 03013909 A 20030620**

Priority  
DE 10227966 A 20020622

Abstract (en)  
[origin: EP1375926A1] The control circuit for a bucket excavator has a hydraulic actuating cylinder (28) for the bucket (20). a multiple way valve (58) controls pressure fluid flow between the cylinder, a pump and a tank. A safety valve is incorporated between the valve and the cylinder. A pressure reservoir (74,74') is connectable on the cylinder side of the safety valve with the cylinder. The pressure reservoir can be connected with the cylinder by a remotely controlled valve.

IPC 8 full level  
**F15B 1/02** (2006.01); **E02F 9/22** (2006.01); **F15B 11/00** (2006.01); **F15B 20/00** (2006.01)

CPC (source: EP US)  
**E02F 9/2207** (2013.01 - EP US); **E02F 9/2217** (2013.01 - EP US); **E02F 9/226** (2013.01 - EP US); **F15B 1/021** (2013.01 - EP US); **F15B 11/003** (2013.01 - EP US); **F15B 20/005** (2013.01 - EP US); **F15B 2211/30525** (2013.01 - EP US); **F15B 2211/3111** (2013.01 - EP US); **F15B 2211/3127** (2013.01 - EP US); **F15B 2211/31588** (2013.01 - EP US); **F15B 2211/40515** (2013.01 - EP US); **F15B 2211/40584** (2013.01 - EP US); **F15B 2211/413** (2013.01 - EP US); **F15B 2211/41527** (2013.01 - EP US); **F15B 2211/426** (2013.01 - EP US); **F15B 2211/428** (2013.01 - EP US); **F15B 2211/46** (2013.01 - EP US); **F15B 2211/50581** (2013.01 - EP US); **F15B 2211/625** (2013.01 - EP US); **F15B 2211/8616** (2013.01 - EP US); **F15B 2211/8636** (2013.01 - EP US)

Cited by  
EP1964756A1; IT202100000431A1; EP3943440A1; US8485288B2; US11427987B2

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 PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 1375926 A1 20040102**; **EP 1375926 B1 20071205**; AT E380297 T1 20071215; CA 2433120 A1 20031222; CA 2433120 C 20070227; DE 10227966 A1 20040108; DE 50308718 D1 20080117; US 2004006980 A1 20040115; US 6951103 B2 20051004

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