

Title (en)
Device for controlling multiple hydraulic actuators.

Title (de)
Einrichtung zur Steuerung mehrerer Servomotoren.

Title (fr)
Dispositif de commande pour plusieurs servomoteurs.

Publication
EP 0550257 A1 19930707 (EN)

Application
EP 92311770 A 19921223

Priority
• JP 21224492 A 19920716
• JP 25051792 A 19920826
• JP 35712891 A 19911225

Abstract (en)
A device for controlling multiple hydraulic actuators to protect a system from an overpressure caused by increasing the load on an individual actuator. By controlling the supply of hydraulic fluid to a pair of cylinders (18,20) each associated with a pilot valve (25,34,45) so that each cylinder always has enough fluid pressure to operate, the device of the present invention prevents the shutdown of the device caused by too much fluid going to the actuator operating at the maximum pressure. Thus all actuators continue to operate even if one is overpressured. <IMAGE>

IPC 1-7
F15B 11/05

IPC 8 full level
E02F 9/22 (2006.01); **F15B 11/16** (2006.01)

CPC (source: EP)
E02F 9/2225 (2013.01); **E02F 9/2232** (2013.01); **E02F 9/2296** (2013.01); **F15B 11/162** (2013.01); **F15B 11/163** (2013.01); **F15B 11/166** (2013.01); **F15B 2211/20553** (2013.01); **F15B 2211/25** (2013.01); **F15B 2211/30555** (2013.01); **F15B 2211/329** (2013.01); **F15B 2211/40584** (2013.01); **F15B 2211/46** (2013.01); **F15B 2211/473** (2013.01); **F15B 2211/50518** (2013.01); **F15B 2211/5153** (2013.01); **F15B 2211/55** (2013.01); **F15B 2211/575** (2013.01); **F15B 2211/6054** (2013.01); **F15B 2211/6355** (2013.01); **F15B 2211/654** (2013.01); **F15B 2211/71** (2013.01)

Citation (search report)
• [A] EP 0433454 A1 19910626 - KOMATSU MFG CO LTD [JP]
• [A] DE 3710699 C1 19880818 - HEILMEIER & WEINLEIN
• [A] WO 9002882 A1 19900322 - ATLAS COPCO AB [SE]

Cited by
EP0877169A3; EP1138956A1; FR2807118A1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 0550257 A1 19930707; **EP 0550257 B1 19980506**; DE 69225392 D1 19980610; DE 69225392 T2 19980903; DE 69228489 D1 19990401; DE 69228489 T2 19990930; DE 69229966 D1 19991014; DE 69229966 T2 20000309; DE 69229968 D1 19991014; DE 69229968 T2 20000309; EP 0684387 A2 19951129; EP 0684387 A3 19961030; EP 0684387 B1 19990908; EP 0684388 A2 19951129; EP 0684388 A3 19961106; EP 0684388 B1 19990224; EP 0684389 A2 19951129; EP 0684389 A3 19961030; EP 0684389 B1 19990908

DOCDB simple family (application)
EP 92311770 A 19921223; DE 69225392 T 19921223; DE 69228489 T 19921223; DE 69229966 T 19921223; DE 69229968 T 19921223; EP 95202286 A 19921223; EP 95202287 A 19921223; EP 95202288 A 19921223