

Title (en)
Hydraulic assembly

Title (de)
Hydraulische Anordnung

Title (fr)
Agencement hydraulique

Publication
EP 2287472 A3 20140903 (DE)

Application
EP 10172292 A 20100809

Priority
DE 102009028816 A 20090821

Abstract (en)
[origin: EP2287472A2] The arrangement (12) has hydraulic loads (32, 34) with supply lines (26, 28) connected over a connection line (60) for controlling supply priority levels assigned to the loads. A load pressure-controlled priority valve (66) is arranged between a hydraulic pump (21) and the connection line in one of the supply lines, and a volume flow reducing agent (58) e.g. flow regulating valve, is arranged in the other supply line. The connection line has a blocking unit (62) i.e. check valve, for blocking volume flow from the latter supply line in a direction of the former supply line. The loads are designed as a hydraulically actuated steering and/or hydraulically actuated brake, hydraulically actuated suspension and hydraulically actuated hoisting gear. The load pressure-controlled priority valve is designed as a proportional valve. The hydraulic pump is designed as a load pressure dependent variable displacement pump.

IPC 8 full level
F15B 11/05 (2006.01)

CPC (source: EP US)
F15B 11/162 (2013.01 - EP US); **F15B 11/165** (2013.01 - EP US); **F15B 11/055** (2013.01 - EP US); **F15B 2211/20546** (2013.01 - EP US); **F15B 2211/253** (2013.01 - EP US); **F15B 2211/413** (2013.01 - EP US); **F15B 2211/41509** (2013.01 - EP US); **F15B 2211/428** (2013.01 - EP US); **F15B 2211/781** (2013.01 - EP US)

Citation (search report)
• [A] DE 202004010530 U1 20041209 - DEERE & CO [US], et al
• [A] DE 3821416 A1 19891228 - REXROTH MANNESMANN GMBH [DE]

Cited by
CN104214150A; DE102011089017B4

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)
BA ME RS

DOCDB simple family (publication)
EP 2287472 A2 20110223; **EP 2287472 A3 20140903**; **EP 2287472 B1 20160217**; BR PI1002967 A2 20120417; CN 101994725 A 20110330; DE 102009028816 A1 20110224; ES 2566638 T3 20160414; US 2011146258 A1 20110623

DOCDB simple family (application)
EP 10172292 A 20100809; BR PI1002967 A 20100818; CN 201010268049 A 20100820; DE 102009028816 A 20090821; ES 10172292 T 20100809; US 82375410 A 20100625