

Title (en)
Hydraulic excavator with a hydraulic circuit

Title (de)
Hydraulikbagger mit Hydraulikkreis

Title (fr)
Pelle hydraulique avec un circuit hydraulique

Publication
EP 1416096 B1 20101006 (EN)

Application
EP 03256761 A 20031027

Priority
JP 2002318556 A 20021031

Abstract (en)
[origin: EP1416096A1] A pilot pressure control device reduces a pilot pressure fed to the bucket digging-side pilot port of a bucket control valve (4) according to the amount of boom raising operation, when the boom raising operation and bucket digging operation are performed simultaneously. The bucket control valve is operated by pilot pressure proportional to the amount of operation of a remote control valve (10).

IPC 8 full level
E02F 9/22 (2006.01); **F15B 11/02** (2006.01); **F15B 11/08** (2006.01); **F15B 11/16** (2006.01); **F15B 11/17** (2006.01)

CPC (source: EP)
E02F 9/2228 (2013.01); **E02F 9/2235** (2013.01); **E02F 9/2242** (2013.01); **E02F 9/226** (2013.01); **E02F 9/2285** (2013.01); **E02F 9/2292** (2013.01); **E02F 9/2296** (2013.01); **F15B 11/162** (2013.01); **F15B 11/166** (2013.01); **F15B 11/167** (2013.01); **F15B 2211/20546** (2013.01); **F15B 2211/30565** (2013.01); **F15B 2211/30595** (2013.01); **F15B 2211/3116** (2013.01); **F15B 2211/329** (2013.01); **F15B 2211/575** (2013.01); **F15B 2211/6309** (2013.01); **F15B 2211/6313** (2013.01); **F15B 2211/6316** (2013.01); **F15B 2211/6355** (2013.01); **F15B 2211/71** (2013.01); **F15B 2211/76** (2013.01); **F15B 2211/78** (2013.01)

Cited by
DE112014003084B4; EP2048371A4; CN105637230A; EP2924181A4; US8919115B2; US7499783B2; US9784266B2; US9890801B2; US9394929B2; WO2008015801A1

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 1416096 A1 20040506; **EP 1416096 B1 20101006**; AT E483861 T1 20101015; DE 60334430 D1 20101118; JP 2004150198 A 20040527; JP 3818252 B2 20060906

DOCDB simple family (application)
EP 03256761 A 20031027; AT 03256761 T 20031027; DE 60334430 T 20031027; JP 2002318556 A 20021031