

Title (en)

Traveling control device for wheeled work vehicle

Title (de)

Fahrsteuerungsvorrichtung für Arbeitsfahrzeug mit Rädern

Title (fr)

Dispositif de commande de déplacement pour véhicule de travail à roues

Publication

EP 2781661 A3 20150128 (EN)

Application

EP 14161061 A 20140321

Priority

JP 2013059726 A 20130322

Abstract (en)

[origin: EP2781661A2] A traveling control device for a wheeled work vehicle includes: a hydraulic pump (130); a traveling motor (115); a work device actuator (116, 117); a traveling directional control valve (145) and a work device directional control valve (146, 147), with the traveling directional control valve (145) and the work device directional control valve (146, 147) disposed on a center bypass line at the hydraulic pump (130); a flow control valve (161); a traveling operation member (155); a work operation member (156, 157); a traveling operation quantity detection means (171); a work operation quantity detection means (172); an output pressure detection means (173); and a valve control means (120). The valve control means (120) controls the flow rate of pressure oil delivered to the traveling motor (115) so as to deter bucking of the wheeled work vehicle if the wheeled work vehicle, currently in a traveling operation-only state in which the traveling operation member (155) is operated but the work operation member (156, 157) is not operated, shifts into a combination operation state in which the traveling operation member (155) is operated and the work operation member (156, 157) is also operated.

IPC 8 full level

E02F 9/22 (2006.01)

CPC (source: EP KR)

E02F 9/20 (2013.01 - KR); **E02F 9/2228** (2013.01 - EP KR); **E02F 9/2253** (2013.01 - EP KR); **E02F 9/2282** (2013.01 - EP KR); **E02F 9/2285** (2013.01 - EP KR); **E02F 9/2296** (2013.01 - EP KR); **F15B 11/044** (2013.01 - EP KR); **F15B 2211/20546** (2013.01 - EP KR); **F15B 2211/40515** (2013.01 - EP KR); **F15B 2211/41509** (2013.01 - EP KR); **F15B 2211/6309** (2013.01 - EP KR); **F15B 2211/6313** (2013.01 - EP KR); **F15B 2211/6658** (2013.01 - EP); **F15B 2211/7058** (2013.01 - EP); **F15B 2211/7135** (2013.01 - EP)

Citation (search report)

- [A] EP 1972726 A1 20080924 - VOLVO CONSTR EQUIP HOLDING SE [SE]
- [A] EP 1995155 A2 20081126 - VOLVO CONSTR EQUIP HOLDING SE [SE]
- [A] US 5673558 A 19971007 - SUGIYAMA GENROKU [JP], et al
- [A] JP H01150653 U 19891018
- [A] EP 2151526 A1 20100210 - VOLVO CONSTR EQUIP HOLDING SE [SE]
- [A] JP 2011247282 A 20111208 - HITACHI CONSTRUCTION MACHINERY

Cited by

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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 RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

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EP 2781661 A2 20140924; **EP 2781661 A3 20150128**; **EP 2781661 B1 20180801**; JP 2014185665 A 20141002; JP 5800846 B2 20151028; KR 101719865 B1 20170324; KR 20140115987 A 20141001

DOCDB simple family (application)

EP 14161061 A 20140321; JP 2013059726 A 20130322; KR 20140030001 A 20140314