

Title (en)
WORK VEHICLE

Title (de)
NUTZFAHRZEUG

Title (fr)
VÉHICULE DE CHANTIER

Publication
EP 3693614 B1 20231101 (EN)

Application
EP 18864823 A 20180904

Priority
• JP 2017194799 A 20171005
• JP 2018032788 W 20180904

Abstract (en)
[origin: EP3693614A1] A first hydraulic circuit (50a) introduces operating oil from a hydraulic pump (34a) to a hydraulic motor (22L) and a first actuator (e.g., first work machine (86)). A second hydraulic circuit (50b) introduces operating oil from a hydraulic pump (34b) to a hydraulic motor (22R) and a second actuator (e.g., third work machine (88)). Left and right hydraulic motors (22L, 22R) drive left and right crawler traveling devices, respectively. If both of instruction signal values for traveling speeds of the left and right crawler traveling devices designated with left and right traveling manipulation levers (36L, 36R) are equal to or higher than a predetermined threshold, a confluent valve (70) enters a confluent state where the two hydraulic circuits (50a, 50b) are connected to each other. In cases other than this, the confluent valve (70) enters an interruption state where the connection between the two hydraulic circuits (50a, 50b) is interrupted.

IPC 8 full level
F15B 11/02 (2006.01); **E02F 9/22** (2006.01); **F15B 11/00** (2006.01); **F15B 11/17** (2006.01)

CPC (source: EP KR)
E02F 9/2221 (2013.01 - KR); **E02F 9/2242** (2013.01 - EP); **E02F 9/2267** (2013.01 - KR); **E02F 9/2282** (2013.01 - EP);
E02F 9/2292 (2013.01 - EP); **E02F 9/2296** (2013.01 - EP); **F15B 11/02** (2013.01 - KR); **F15B 11/17** (2013.01 - KR); **F15B 13/06** (2013.01 - KR);
F15B 2211/20553 (2013.01 - EP); **F15B 2211/20576** (2013.01 - EP KR); **F15B 2211/30595** (2013.01 - EP); **F15B 2211/329** (2013.01 - EP KR);
F15B 2211/355 (2013.01 - EP); **F15B 2211/605** (2013.01 - KR); **F15B 2211/7135** (2013.01 - EP); **F15B 2211/7142** (2013.01 - EP)

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

DOCDB simple family (publication)
EP 3693614 A1 20200812; **EP 3693614 A4 20210811**; **EP 3693614 B1 20231101**; AU 2018344665 A1 20200423; JP 2019066018 A 20190425;
JP 6936687 B2 20210922; KR 102667937 B1 20240521; KR 20200061332 A 20200602; WO 2019069612 A1 20190411

DOCDB simple family (application)
EP 18864823 A 20180904; AU 2018344665 A 20180904; JP 2017194799 A 20171005; JP 2018032788 W 20180904;
KR 20207005440 A 20180904