

Title (en)
DRIVE SYSTEM FOR A WORK VEHICLE

Title (de)
ANTRIEBSSYSTEM FÜR EIN ARBEITSFAHRZEUG

Title (fr)
SYSTÈME D'ENTRAÎNEMENT POUR ENGIN DE CHANTIER

Publication
EP 3985181 A1 20220420 (EN)

Application
EP 21202239 A 20211012

Priority
BE 202005719 A 20201014

Abstract (en)
Drive system for a work vehicle with at least two driven wheels (4) and at least one hydraulic actuator (7, 21, 26), wherein the drive system comprises a first electric motor (1A) which is mechanically coupled to a first hydraulic pump (2) for the purpose of driving the at least two wheels, and wherein the drive system comprises a second electric motor (1B) which is mechanically coupled to a second hydraulic pump (5) for the purpose of driving the at least one hydraulic actuator, wherein the first hydraulic pump is a two-way pump which is connected directly to two-way rotors at the wheels so that a rotation of the two-way pump is proportionally transferred to the wheels, and wherein the first electric motor is provided with a controller for controlling the electric motor on the basis of a first input which relates to a desired displacement of the work vehicle.

IPC 8 full level
E02F 9/22 (2006.01); **E02F 9/20** (2006.01)

CPC (source: EP)
E02F 9/2095 (2013.01); **E02F 9/2217** (2013.01); **E02F 9/2253** (2013.01); **E02F 9/2282** (2013.01); **E02F 9/2292** (2013.01)

Citation (applicant)
EP 2444555 A1 20120425 - TAKEUCHI MFG [JP]

Citation (search report)
• [XYI] US 2013312399 A1 20131128 - HIRAKU KENJI [JP], et al
• [Y] US 2019345692 A1 20191114 - SAITOH TEPPEI [JP], et al
• [A] US 2013259619 A1 20131003 - SHIRAO ATSUSHI [JP]
• [Y] US 2005279560 A1 20051222 - SMALLEY RYAN D [US]
• [A] WO 2015195246 A1 20151223 - PARKER HANNIFIN CORP [US]
• [Y] US 2020002922 A1 20200102 - FUKUDA YUJI [JP], et al

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

DOCDB simple family (publication)
EP 3985181 A1 20220420; BE 1028704 A1 20220510; BE 1028704 B1 20220518

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