

Title (en)

System for driving hydraulic components of a vehicle superstructure

Title (de)

System zum Antrieb hydraulischer Komponenten einer Fahrzeug-Superstruktur

Title (fr)

Système de commande de composants hydrauliques d'une superstructure de véhicule

Publication

**EP 2072421 A1 20090624 (EN)**

Application

**EP 07150097 A 20071219**

Priority

EP 07150097 A 20071219

Abstract (en)

The invention concerns a system (1) for driving hydraulic components of a superstructure (10) adapted to be arranged onto a vehicle, said system comprising: a first hydraulic device (5) capable of working as a hydraulic pump, said first hydraulic device (5) being arranged for driving of the hydraulic components of the superstructure (10); an electric device (7) capable of working as an electric motor, said electric device (7) being arranged for driving of the first hydraulic device (5); and at least one rechargeable battery (11) arranged for powering the electric device (7). The invention is characterized in that the electric device (7) is capable of working also as an electric generator, wherein the electric device (7) is arranged to charge the at least one battery (11) when working as an electric generator, that the first hydraulic device (5) is capable of working also as a hydraulic motor, wherein the first hydraulic device (5) is arranged to drive the electric device (7) as an electric generator when the first hydraulic device (5) works as a hydraulic motor, and that the first hydraulic device (5) is connectable to a power take-off (PTO) (2) driven by an engine of the vehicle such as to allow the first hydraulic device (5) to be driven as a hydraulic motor by the power take-off (PTO) (2). The invention also concerns a superstructure and a vehicle comprising a system of the above type. The invention also concerns a method for charging a battery in a system of the above type.

IPC 8 full level

**B65F 3/00** (2006.01)

CPC (source: EP)

**B65F 3/00** (2013.01)

Citation (applicant)

- JP 2007050996 A 20070301 - KYOKUTO KAIHATSU KOGYO CO
- EP 1746049 A1 20070124 - ARTMANN HARALD [AT]

Citation (search report)

- [DA] EP 1746049 A1 20070124 - ARTMANN HARALD [AT]
- [A] DE 3041630 A1 19820513 - SCHOERLING WAGGONBAU [DE]

Cited by

JP2015117074A; NL2005725C2; JP2016190735A; JP2016005985A; EP2380826A1; ITVR20100075A1; JP2016005984A; EP4119467A1; NL2028755B1; WO2012067506A1; EP2347978B1; EP2640649B1

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