

Title (en)
ENERGY RECYCLING SYSTEM FOR WORKING DEVICE

Title (de)
ENERGIERÜCKGEWINNUNGSSYSTEM FÜR EINE ARBEITSVORRICHTUNG

Title (fr)
SYSTÈME DE RECYCLAGE D'ÉNERGIE POUR ENGIN DE TRAVAUX

Publication
EP 2853755 B1 20170329 (EN)

Application
EP 13794438 A 20130517

Priority
• CN 201220232536 U 20120522
• CN 2013075812 W 20130517

Abstract (en)
[origin: EP2853755A1] Disclosed is a working device energy recovery system, including energy converters, a pressure energy retaining valve, a switchover valve, an energy collector, a logical control member, a main valve, a boom and corresponding connections. With the system, dropping potential energy of the boom can be controllably converted to hydraulic energy to be stored in the energy collector, and the potential energy can also be directly recycled to do work on the boom in a balancing manner, thereby reducing heat generated by a hydraulic system, reducing input power of a prime mover, and achieving the objective of saving energy.

IPC 8 full level
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CPC (source: EP)
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Cited by
EP3805469A1; US10941542B2; WO2017031066A1; US10358797B2; EP3536865A1; US10815646B2; US11225776B2; EP4310263A2

Designated contracting state (EPC)
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EP 2853755 A1 20150401; **EP 2853755 A4 20150708**; **EP 2853755 B1 20170329**; AU 2013265872 A1 20141204; AU 2013265872 B2 20170309; CN 202926765 U 20130508; SG 11201407604W A 20150129; WO 2013174235 A1 20131128

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