

Title (en)
SYSTEM FOR CONTROLLING AND MONITORING THE OPERATION OF SELF-MOVING MACHINES WITH AN ARTICULATED ARM, SUCH AS CONCRETE PUMPS, AND MAINTENANCE METHOD FOR SAID MACHINES

Title (de)
VORRICHTUNG ZUM STEuern UND ÜBERWACHEN DES BETRIEBES VON SELBSTFAHRENDEN GERÄTEN MIT GELENKARM, WIE BETONPUMPEN UND METHODE ZUR WARTUNG SOLCHER GERÄTE

Title (fr)
DISPOSITIF DE COMMANDE ET DE CONTROLE D'EXPLOITATION D'UNE MACHINE AUTOTRACTÉE AVEC UN BRAS ARTICULÉ TEL QUE DES POMPES À BÉTON ET PROCÉDÉ DE MAINTENANCE POUR UNE TELLE MACHINE

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Abstract (en)
A system for controlling and monitoring the operation of self-moving machines with an articulated arm, particularly concrete pumps, is disclosed comprising a plurality of sensors and transducers apt to collect data regarding the machine position, attitude and operating parameters, and a central unit apt to receive in real time said data, process and compare them with reference data regarding the proper use of the machine and make them comprehensible to an operator. A maintenance method based on the acquisition and comparison of the data of said system equipped with a memory device is also described. <IMAGE>

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CPC (source: EP)
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Citation (search report)

- [X] EP 0737851 A2 19961016 - BRUGER & FISCHER KRANANLAGEN U [DE]
- [A] EP 1150019 A1 20011031 - HIAB AB [SE]
- [A] US 2002015354 A1 20020207 - BUCKELEW RICHARD A [US]

Cited by
DE102014009165B4; DE102015117086A1; EA012868B1; EP1849931A3; EP2186968A1; US9856662B2; CN104847113A; DE102015203020A1; DE102016000531A1; DE102019118902A1; EA013204B1; CN114475532A; US7909059B2; US9068366B2; WO2013097380A1; WO2010060668A1; WO2007045426A1; WO2008003548A1; WO2013107123A1; WO2015197708A1; DE102022120770A1; WO2024038096A1; US8281811B2; US11747182B2; WO2017060458A1; WO2008110397A1; WO2019111190A1

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