

Title (en)

Self-propelled, articulated-boom machine with an improved system for the surveillance and monitoring of the operation such machine

Title (de)

Selbstfahrende Maschine mit Knickmast mit einer verbesserten Vorrichtung zur Überwachung und Kontrolle vom Betrieb dieser Maschine

Title (fr)

Une machine automotrice à flèche articulée avec un système de surveillance et de contrôle amélioré pour l'opération d'une telle machine

Publication

EP 1849931 A2 20071031 (EN)

Application

EP 06123187 A 20061030

Priority

IT MI20060818 A 20060424

Abstract (en)

System for the control and monitoring of the operation of self-propelled, articulated-boom machines, in particular concrete pumps, comprising a plurality of sensors capable of continuously detecting instant data concerning the geometric conditions of the operating attitude of the machine and the load conditions thereof, as well as a central processing unit which, on the basis of such data and of previously-stored safety parameters, continuously checks for the meeting of one or more critical conditions for machine safety, such as levelling, overturning moment, stability, resonance swinging of the articulated boom. During machine operation, when at least one of said critical conditions is approached beyond a threshold value, the central unit provides to actuate a sound and visual alarm signal and at the same time to activate automatic cycles for the gradual stop of the machine and/or for gradually moving away from said critical condition.

IPC 8 full level

E04G 21/04 (2006.01)

CPC (source: EP)

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Cited by

CN104088465A; DE102019105814A1; DE102019105817A1; CN102395480A; DE102018204079A1; CN102979310A; CN104675119A; CN105275211A; DE102019105871A1; EP3091143A1; CN104790670A; CN111042535A; US10099660B2; US8694204B2; US12024906B2; US8727379B2; WO2010120216A1; WO2022200275A3; WO2023052113A1; WO2014029179A1; WO2012171402A1; WO2012150106A1; WO2018115270A1; WO2016016305A1; EP3175060B1; EP3175060B2

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Designated extension state (EPC)

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