

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 B1 20161130 (EN)**

Application

**EP 06123187 A 20061030**

Priority

IT MI20060818 A 20060424

Abstract (en)

[origin: EP1849931A2] 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)

**B66C 23/54** (2013.01); **B66C 23/905** (2013.01); **E04G 21/04** (2013.01); **E04G 21/0436** (2013.01)

Citation (examination)

- DE 102004012966 A1 20051006 - PUTZMEISTER AG [DE]
- DE 10110176 A1 20020905 - PUTZMEISTER AG [DE]

Cited by

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

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