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(54) **Improved system for the surveillance and monitoring of the operation of self-propelled, articulated-boom machines, such as concrete pumps**

(57) 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 con-

ditions 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.

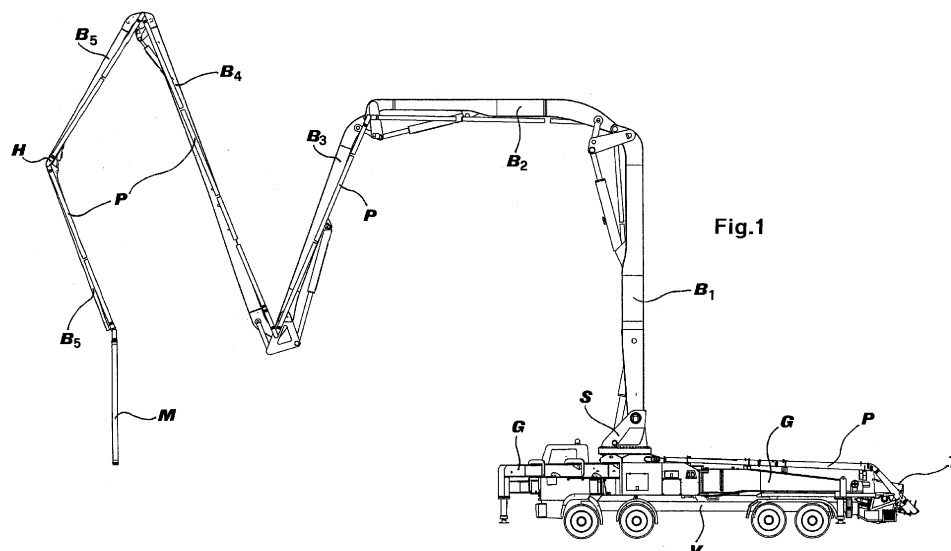


Fig.1



EUROPEAN SEARCH REPORT

Application Number
EP 06 12 3187

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Y	* column 6, line 52 - column 7, line 1 * * column 11, line 9 - line 19 * * column 11, line 29 - line 35 * * claims * * figures *	5-7	
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The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
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CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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