

Title (en)

METHOD AND SYSTEM FOR AVOIDING COLLISIONS BY CRANES

Title (de)

VERFAHREN UND SYSTEM ZUR VERMEIDUNG VON KOLLISIONEN BEI KRÄNEN

Title (fr)

PROCÉDÉ ET SYSTÈME POUR ÉVITER DES COLLISIONS PAR DES GRUES

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Application

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Abstract (en)

[origin: WO2018007203A1] The invention relates to a method and to a system for preventing a collision of a load of a crane (2) with an obstacle (2) and to a crane (2) having such a system, to a program for carrying out such a method, and to a computer-readable medium having such a program. The aim of the invention is to provide a solution for collision avoidance which meets a safety level. This aim is achieved by a solution, in which the load is moved along a trajectory (4), wherein a height profile is captured at least along the trajectory (4) by means of at least two sensors (5) for distance measurement, wherein signals of the sensors (5) are transmitted via at least two communication channels (7) to a controller (8) having at least two operating systems (9, 10), of which at least one has a safety program in a secure area, wherein an obstacle (2) is identified along the trajectory (4) by means of the height profile. The controller (8) also has a secure communications interface (13) for transmitting signals from the controller (8) to a crane control.

IPC 8 full level

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