

Title (en)  
A METHOD OF CONTROLLING A CRANE, AND A CRANE

Title (de)  
VERFAHREN ZUR STEUERUNG EINES KRANS UND KRAN

Title (fr)  
PROCÉDÉ DE COMMANDE D'UNE GRUE ET GRUE

Publication  
**EP 3889095 A1 20211006 (EN)**

Application  
**EP 21165232 A 20210326**

Priority  
SE 2050359 A 20200331

Abstract (en)  
A crane (1) comprising a movable arm (2), and a tool (9) provided at an end of the movable arm (2). The crane (1) comprises a control system configured to a) detect a first condition in which the tool (9) is in a holding position and the movable arm (2) is in an unloaded condition in which it is not actively lifting an object held by said tool (9), b) registering a first point of time at which the first condition is obtained and counting a period of time (t) from the first point of time, and, c) when the counted period of time (t) exceeds a threshold value ( $t_{\text{threshold}}$ ), activating a safe operation mode in the control system which prevents a first hydraulic device (3, 4, 5) from moving the movable arm (2), said safe operation mode being deactivatable by an actuation of a second hydraulic valve for controlling the holding position of the tool (9).

IPC 8 full level  
**B66C 23/68** (2006.01); **B66C 23/88** (2006.01)

CPC (source: EP SE)  
**B66C 13/18** (2013.01 - SE); **B66C 15/00** (2013.01 - SE); **B66C 23/54** (2013.01 - EP); **B66C 23/88** (2013.01 - EP SE); **B66C 1/42** (2013.01 - SE)

Citation (search report)

- [A] EP 1607365 A1 20051221 - HIAB AB [SE]
- [A] EP 3546414 A1 20191002 - TEREX DEUTSCHLAND GMBH [DE]
- [A] US 4037742 A 19770726 - GUSTAFSSON HANS ERIC KARL

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
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DOCDB simple family (publication)  
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