

Title (en)

A CRANE ASSEMBLY, AND A METHOD IN RELATION THERETO

Title (de)

KRANANLAGE UND DAMIT IN ZUSAMMENHANG STEHENDES VERFAHREN

Title (fr)

ENSEMBLE GRUE ET PROCÉDÉ ASSOCIÉ À CELUI-CI

Publication

**EP 4238926 A1 20230906 (EN)**

Application

**EP 22159457 A 20220301**

Priority

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Abstract (en)

A crane assembly (2) comprising a frame assembly (4) having an elongated extension along a longitudinal axis A, a crane (6) carried by the frame assembly (4), and at least two support legs (8) connected to the frame assembly (4). The crane (6) comprises a column (10), a liftable and lowerable crane boom (12) articulately fastened to the column, and a crane controller (16), which is configured to determine whether one or more predetermined load limiting conditions of the crane assembly (2) are fulfilled for a lifting moment associated with a movement of the crane (6), and to restrict movements of the crane (6) to movements for which the lifting moment of the crane (6) fulfills the load limiting conditions of the crane assembly (2). The crane controller (16) is further configured to determine a mechanical stress parameter value of the frame assembly (4) as an effect of a lifting moment associated with a movement of the crane (6), wherein at least one load limiting condition specific for the frame assembly (4) is provided that comprises said mechanical stress parameter, and to compare said determined mechanical stress parameter value with a predetermined maximum allowable mechanical stress parameter value of the frame assembly (4), and restrict movements of the crane (6) to movements for which the at least one load limiting condition specific for the frame assembly (4) is fulfilled.

IPC 8 full level

**B66C 23/90** (2006.01)

CPC (source: EP)

**B66C 23/905** (2013.01)

Citation (applicant)

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Citation (search report)

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- [A] US 6202013 B1 20010313 - ANDERSON THOMAS M [US], et al

Designated contracting state (EPC)

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