

Title (en)

Method of controlling crane boom arrangement and apparatus for implementation thereof

Title (de)

Verfahren zum Steuern eines Kranauslegers und Vorrichtung zur Durchführung des Verfahrens

Title (fr)

Procédé pour la commande d'une flèche de grue et dispositif pour la mise en oeuvre du procédé

Publication

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Application

EP 04101857 A 20040430

Priority

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Abstract (en)

The invention relates to a method controlling a crane boom arrangement (2, 3, 4, 5, 6), comprising moving a lifting boom (3) functionally connected by a joint (18) to a post (2) mounted in a crane base (1) by at least one lifting cylinder (7). The lifting cylinder (7) is articulated with the post (2) by a first joint (16) and connected to the lifting boom (3) movable with respect to the post (3) by a second joint (17) and it is controlled by control means (23). The invention is characterized in that the lifting boom (3) is moved with respect to the post (2) by a moment generated by an auxiliary cylinder (9) controlled by separate control means (22) about a joint (18) connecting the post (2) and the lifting boom (3) in situations where the position between the post (2) and the lifting boom (3) is such that the moment of the lifting cylinder (7) alone is insufficient for moving the lifting boom (3).
<IMAGE>

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IPC 8 full level

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IPC 8 main group level

B66C (2006.01)

CPC (source: EP)

B66C 23/54 (2013.01); **B66C 23/545** (2013.01)

Citation (search report)

- [X] US 4183712 A 19800115 - LINDBERG HANS E [SE]
- [A] EP 0733585 A2 19960925 - ROCHUS PENZ KRANBAU GMBH [AT]

Cited by

EP3339237A1; EP2789566A1; WO2018114250A1; CN110438551A; EP2248753A1; RU2471702C2; AT13362U1; US8596474B2; EP3333112A1; WO2018104042A1

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