

Title (en)

LORRY AND METHOD FOR REGULATING THE MAXIMUM ALLOWED LIFTING MOMENT OF A HYDRAULIC LORRY CRANE

Title (de)

LASTKRAFTWAGEN UND VERFAHREN ZUR REGELUNG DES MAXIMAL ZULÄSSIGEN HUBMOMENTS EINES HYDRAULISCHEN
LASTKRAFTWAGENKRANS

Title (fr)

CAMION ET PROCÉDÉ DE RÉGULATION DU MOMENT DE LEVAGE MAXIMAL AUTORISÉ D'UN CAMION GRUE HYDRAULIQUE

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EP 3812338 A1 20210428 (EN)

Application

EP 19204506 A 20191022

Priority

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Abstract (en)

The invention relates to a lorry with at least two pairs of stabilizer legs (10a, 10b, 11a, 11b). A hydraulic crane (20) is carried by the chassis (5) of the lorry and comprises a rotatable column (22). An electronic control device is configured to establish a lifting moment limit value while taking into account the stability of the lorry against tipping, wherein this limit value represents the maximum allowed value for the lifting moment of the crane. The electronic control device adjusts said limit value in dependence on the slewing angle (θ) of the column such that the twisting of the chassis induced by the weight of the crane and the load carried by the crane is limited so that the consequential lifting of a stabilizer leg from the ground is prevented from exceeding a predetermined level. The invention also relates to a method for regulating the maximum allowed lifting moment of a hydraulic crane.

IPC 8 full level

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CPC (source: EP)

B66C 23/54 (2013.01); **B66C 23/80** (2013.01); **B66C 23/905** (2013.01)

Citation (applicant)

EP 2298689 A2 20110323 - CARGOTEC PATENTER AB [SE]

Citation (search report)

- [XD] EP 2298689 A2 20110323 - CARGOTEC PATENTER AB [SE]
- [A] CN 203922532 U 20141105 - XCMG XUZHOU TRUCK MOUNTED CRANE CO LTD
- [A] JP H0663577 U 19940909

Cited by

CN113942942A; CN113772564A

Designated contracting state (EPC)

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