

Title (en)

Method and device to facilitate weathervaning a tower crane in a disturbed wind

Title (de)

Verfahren und Vorrichtung zum leichteren Einstellen der freien Drehfunktion eines Turmkrans bei starkem Wind

Title (fr)

Procédé et dispositif pour faciliter la mise en girouette d'une grue à tour dans un vent perturbé

Publication

EP 2025637 B1 20100526 (FR)

Application

EP 08356064 A 20080424

Priority

FR 0705817 A 20070810

Abstract (en)

[origin: EP2025637A1] The method involves exerting braking torque on a rotating part (2) of a tower crane when the tower crane is out of service. The braking torque is calculated from an expression $C_{fr2} = C_{fl2} - C_{cf2} - C_{cou}$, where C_{fr2} represents the braking torque, C_{fl2} represents the torque applied to an arrow (3) by wind with speed lower than maximum speed that is authorized for working of the crane, C_{cf} represents the torque applied to a camber (4) by the wind with speed lower than the maximum speed, and C_{cou} represents friction torque of an orientation crown (5) of the rotating part. An independent claim is also included for a device for assisting tower crane in a disturbed wind.

IPC 8 full level

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CPC (source: EP)

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Cited by

DE102018127783A1; CN103663214A; EP2123592A1; US9327950B2; DE102015104148A1; WO2016146827A1; WO2020094770A1; US12024406B2

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