

Title (en)

METHOD AND DEVICE FOR TESTING THE STABILITY AND/OR BENDING STRENGTH OF MASTS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR PRÜFUNG DER STAND- UND/ODER BIEGEFESTIGKEIT VON MASTEN

Title (fr)

PROCEDE ET DISPOSITIF POUR VERIFIER LA STABILITE ET/OU LA RESISTANCE A LA FLEXION DE POTEAUX

Publication

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Application

**EP 06762785 A 20060724**

Priority

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Abstract (en)

[origin: WO2007017090A1] The invention relates to a method and a device (10) for testing the stability and/or bending strength of masts (11), especially non-guyed masts (11). According to said method, a) the test is performed dynamically, b) the mast (11) being excited by means of an artificially generated force so as to perform movements, particularly vibrations, and c) the movements of the mast (11) are determined with the aid of one or several sensors (acceleration sensors, (13, 14)) which are disposed on the mast (11) and detect acceleration values in the respective position thereof on the mast (11). The inventive device (10) comprises a) an unbalance exciter (12) which is or can be placed on the mast (11), especially along the top third of the mast height (h), in order to generate a force, particularly a periodic force, affecting the mast (11) that is to be tested, b) one or several acceleration sensors (13, 14) which are or can be disposed on the mast (11) to detect acceleration values, and c) an evaluation unit (21) for determining the stability and/or the bending strength and/or flaws of the mast (11) that is to be tested.

IPC 8 full level

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