Title (en)

METHOD AND EQUIPMENT FOR THE DYNAMIC BALANCING OF THE RIMS OF WHEELS OF MOTOR VEHICLES

Title (de)

VERFAHREN UND GERÄTE ZUM DYNAMSICHEN AUSWUCHTEN DER FELGEN VON RÄDERN VON KRAFTFAHRZEUGEN

Title (fr)

PROCEDE ET EQUIPEMENT POUR L'EQUILIBRAGE DYNAMIQUE DES JANTES DE ROUES DE VEHICULES A MOTEUR

Publication

EP 1656540 A1 20060517 (EN)

Application

EP 04766222 A 20040714

Priority

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- IT BO20030448 A 20030729

Abstract (en)

[origin: WO2005012867A1] The whole process of checking and executing the balancing of the rim is carried out by,the numerically controlled machine tool which'also carries out the final machining of the rim, with the evident major financial advantages derived from this condition. The machine is provided with sensors (11) for detecting the vibrations produced on the mandrel (M) by the dynamic imbalance of the rim (C). The mandrel carrying the rim is driven by a motor with electronic speed and phase control. The rim is positioned with the valve hole (FV) in a predetermined angular position which is known to the logic circuit (12) which by means of the said sensors (11) determines the angular position and extent of the dynamic imbalance, and the final balancing machining is carried out by eccentric and/or localized turning, with the rim continuing to rotate normally about its axis, at the correct velocity, while the turning tool (9) is moved by the numerical control system (7) in such a way as to remove the predetermined amount of material only in the area or areas identified by means of the said sensors.

IPC 1-7

G01M 1/34

IPC 8 full level

G01M 1/04 (2006.01); **G01M 1/22** (2006.01); **G01M 1/34** (2006.01)

CPC (source: EP)

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