

Title (en)  
COMPLEX BALANCING OF A ROTATING MECHANICAL PART

Title (de)  
KOMPLEXE AUSWUCHTUNG EINES ROTIERENDEN MECHANISCHEN TEILS

Title (fr)  
EQUILIBRAGE COMPLEXE DE PIECE MECANIQUE EN ROTATION

Publication  
**EP 2406130 A2 20120118 (FR)**

Application  
**EP 09784310 A 20090728**

Priority  
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Abstract (en)  
[origin: WO2010103193A2] Balancing problems are mechanical force interactions that generate electron fluctuations according to stable and known relations, elastic deformation of materials and piezoelectric effects. In the field of traditional mechanics that factually focuses on a single and same structure and measurement, we tend to forget about the other functions of the same structure used for several simultaneous functions. The results are surprising in terms of comfort. Tests show that a vehicle driver is not subjected to tyre vibrations anymore and discovers silent, fluid and almost effortless driving. Indeed, all mechanical adverse constraints are strongly attenuated, which relieves the steering wheel, reduces the noises and offers unexpected comfort. An elastic balloon, being a non exhaustive instance, that constitutes the hopping tyre is totally erased in terms of alternation of uncontrolled movements and really adheres to the road. It is clear that driving in rainy conditions is excellent and braking and safety are strongly increased. The fatigue threshold is strongly delayed. Different applications in complex problems in mechanics or hydraulics on industrial machines or engines can thus find reliable solutions thanks to said method, as well as more stable operation. This novel self-adjustment technique implemented by nanotechnologies is a great step forward on known problems that did not have any real solutions or were only considered from a static point of view and in which a single factor was accounted for.

IPC 8 full level  
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CPC (source: EP KR)  
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