

Title (en)  
Clockwork mechanism with lubricant-free contact torque

Title (de)  
Uhrwerksmechanismus mit ungeschmierter Kontaktkupplung

Title (fr)  
Mécanisme d'horlogerie à couple de contact sans lubrification

Publication  
**EP 2945025 B1 20180207 (FR)**

Application  
**EP 14168699 A 20140516**

Priority  
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Abstract (en)  
[origin: US2015331391A1] A timepiece mechanism comprising including a pair of components with a first component including a material taken from a first group including solid monocrystalline, natural diamond, micro- or nano-crystalline CVD diamond, solid monocrystalline diamond, and amorphous carbon "DLC", and having a first friction surface arranged to cooperate with a second friction surface included in a second opposing component and the second component includes, at least in its second friction surface, a material with a high concentration of boron, greater than 10 atomic percent, and, in a particular embodiment, this second opposing component includes at least one ceramic containing boron. Method for manufacturing such a mechanism. Method for transforming such a mechanism.

IPC 8 full level  
**G04B 11/00** (2006.01); **G04B 13/02** (2006.01); **G04B 15/14** (2006.01)

CPC (source: EP RU US)  
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Cited by  
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