

Title (en)  
COMPRESSION SPRING USED TO CONTROL A DYNAMICALLY STRESSED ELEMENT

Title (de)  
DRUCKFEDER ZUM ANSTEUERN EINES DYNAMISCH BEANSPRUCHTEN ELEMENTS

Title (fr)  
RESSORT DE PRESSION POUR COMMANDER UN ELEMENT A CONTRAINTE DYNAMIQUE

Publication  
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Application  
**EP 05752688 A 20050615**

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Abstract (en)  
[origin: WO2006015897A1] The invention relates to a compression spring (1) which is used to control a dynamically stressed element and which is made of a spring wire (2) wound in order to form a cylindrical screw. The compression spring (1) is optimised by taking onto account the design of the dynamically stressed element such that the material, the geometry of the cross-section (d) and the surface (3) of the spring wire (2) of the compression spring (1) are regulated in relation to each other. The surface (3) of the spring wire (2) is modified in order to be resistant to wear and/or to limit friction. Alternatively or supplementary, the material of the spring wire (2) is valve steel and/or the geometry of the cross-section (d) of the spring wire (2) is embodied in a form which is different from a circle, at least in an approximately elliptically or logarithmically profiled form. The invention also relates to a method for the production of said type of compression spring (1) and to the use thereof.

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Citation (search report)  
See references of WO 2006015897A1

Citation (examination)  
• US 2002191493 A1 20021219 - HARA TATSUO [JP]  
• EP 1106793 A1 20010613 - SUMITOMO ELECTRIC INDUSTRIES [JP]

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