

Title (en)  
TORSION SPRING ELEMENT

Title (de)  
TORSIONSFEDERELEMENT

Title (fr)  
ÉLÉMENT ÉLASTIQUE DE TORSION

Publication  
**EP 3010735 A1 20160427 (DE)**

Application  
**EP 14728090 A 20140603**

Priority  
• DE 102013010418 A 20130621  
• EP 2014001495 W 20140603

Abstract (en)  
[origin: WO2014202185A1] The invention relates to a torsion spring element (1), comprising at least two spring element mounts (2), which are arranged at an axial distance from each other and which can be rotated in relation to each other, and at least one elastic spring element (3), which is arranged at a radial distance from the axis of rotation D and which connects the spring element mounts (2), wherein the at least one elastic spring element (3) is extended and experiences an axial force having an axial force vector X and a secant force having a secant force vector E in the event of a relative rotational deflection B of the spring element mounts (2) from the zero position A, wherein the direction of the secant force vector E depends on the deflection B from the zero position A and the secant force applies a restoring torque M to the spring element mounts (2) by means of a lever arm H extending perpendicularly from the secant force vector E to the axis of rotation D.

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Citation (search report)  
See references of WO 2014202185A1

Citation (examination)  
• WO 9627055 A1 19960906 - KRUMME ROBERT C [US], et al  
• FR 2847958 A1 20040604 - COMMISSARIAT ENERGIE ATOMIQUE [FR], et al

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