

Title (en)
TENSIONING DEVICE COMPRISING A DIVERTED OR DEFLECTED TENSION SPRING

Title (de)
ZUGVORRICHTUNG MIT AB- ODER UMGELENKTER ZUGFEDER

Title (fr)
DISPOSITIF DE TRACTION À RESSORT DE TRACTION DÉVIÉ OU RENVOYÉ

Publication
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Application
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Abstract (en)
[origin: WO2008098563A1] The invention relates to a tensioning device comprising a tension spring that rests against a diversion or deflection roller while at least partially being wound around it, to a combined deceleration/acceleration device comprising said tensioning device and to a guide system comprising said deceleration/acceleration device. The total spring stroke of the tension spring is at least 50% of its nominal stroke. The tension spring comprises at least one zone of high spring rigidity and at least one zone of low spring rigidity. The zone of high spring rigidity rests against the diversion or deflection roller. In the zone of high spring rigidity, the quotient of the average diversion or deflection radius and the differential stroke of the outer and inner spring zone per spring coil is greater than 50. The invention provides a device which essentially rules out spring fracture.

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Citation (search report)
See references of WO 2008098563A1

Cited by
US11913274B2; WO2021115515A1

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