CLAIMS

1. A cable anchoring system, comprising:

- a frame,

- a drum mounted rotatably on the frame about an axis of rotation, the drum having a lateral surface around an axis parallel to the axis of rotation, the drum being suitable for allowing travel of the cable by the winding and/or unwinding of said cable along a portion of the lateral surface, by the rotation of said drum about the axis of rotation in response to a variation in the mechanical tension of the cable,

- at least one torsion spring arranged between the drum and the frame so as to compensate for the variation in the tension of the cable.

2. The cable anchoring system as claimed in the preceding claim, wherein the at least one torsion spring comprises a first part mounted on the frame and a second part mounted on the drum, the second part being suitable for pivoting with respect to the first part.

3. The cable anchoring system as claimed in claim 1, comprising at least two torsion springs disposed in series.

4. The cable anchoring system as claimed in the preceding claim, wherein a first part of a first spring is mounted on the frame, a first part of a second spring is mounted on the drum, and a second part of the first spring is rigidly connected to a second part of the second spring

5. The cable anchoring system as claimed in one of claims 1 to 4, wherein each torsion spring comprises a rigid and hollow outer shaft, a rigid central shaft housed inside the outer shaft, and a damper configured to damp a torsional movement of the rigid and hollow outer shaft in relation to the rigid central shaft.

6. The cable anchoring system as claimed in the preceding claim, wherein the damper of the torsion spring comprises a plurality of elastomer elements arranged between the rigid central shaft and the rigid and hollow outer shaft.

7. The cable anchoring system as claimed in the preceding claim, wherein each torsion spring comprises a first metallic and hollow square-based prism forming the rigid and hollow outer shaft, a second prism forming the central shaft arranged in the first prism with an angular offset with respect to the first prism, and in which each elastomer element is a cylinder arranged between the first prism and the second prism, in each corner of the first prism.

8. The cable anchoring system as claimed in the preceding claim, comprising two torsion springs in series, the second square-based prism of the first torsion spring being connected to the second square-based prism of the second torsion spring.

9. The cable anchoring system as claimed in one of the preceding claims, wherein the at least one torsion spring is configured to damp the forces generated by the rotation of the drum about the axis of rotation between a first stop position of the drum and a second stop position of the drum, the first stop position and the second stop position being angularly offset with respect to the axis of rotation by an angle between 0° and 90°, preferably between 0° and 60°.

10. The cable anchoring system as claimed in one of the preceding claims, comprising at least two sets of torsion springs disposed in parallel, a first part of each set of torsion springs being mounted on the frame and a second part of each set of springs being mounted on the drum.

11. The cable anchoring system as claimed in one of the preceding claims, further comprising a compression spring and/or a tension spring comprising a first part mounted on the frame and a second part mounted on the drum.

12. A lifting device comprising:
- a spreader comprising at least one member for fastening a load to be lifted,
- a cable anchoring system as claimed in one of the preceding claims comprising a frame and a drum, the frame being attached to the spreader and the drum being attached to the frame,
- a winder suitable for being attached to a lift machine,
- a cable, a first end of the cable being anchored to the drum of the anchoring system by a fixed winding of at least two turns around the lateral surface of the drum and a second end of the cable being wound around the winder.

13. A lift machine, such as a crane, a gantry or a forklift truck, comprising a lifting device as claimed in claim 12.