CLAIMS

1. Device (1) for viewing tension loss in a structure, by cooperation with a threaded rod, being implemented, for example, by a bolt (5) consisting of a screw (60) and a nut (70), and composed of two non-deformable washers (2a, 2b) including an inner face (20a, 20b), an outer face (21a, 21b), an outer peripheral wall (22a, 22b) and an inner peripheral wall (23a, 23b) delimiting a central opening (24) and a diametrically deformable viewing ring (3) sandwiched between the two non-deformable washers (2a, 2b), characterised in that the ring including a diametral plane (P) and a central axis (X), substantially perpendicular to each other, is crush resistant, and deforms solely in the diametral plane (p), and the thickness (e) of at least one of the washers decreases from the centre of the at least one of the washers towards the peripheral end (25) thereof, the smallest thickness being therefore located towards the peripheral end of the at least one of the washers (2a, 2b).

2. Viewing device (1) according to any one of the preceding claims, characterised in that one of the washers includes a diameter (D1) greater than the diameter (D2) of the other washer.

3. Viewing device (1) according to claim 1, characterised in that at least one of the non-deformable washers (2a, 2b) comprising on the inner face (20a, 20b) thereof a central projection (26) the inner face (260) of which is intended, after tightening, to come into abutment against the inner face (20a, 20b) of the other one of the non-deformable washers (20a, 20b).

4. Viewing device (1) according to any one of the preceding claims, characterised in that two non-deformable washers (2a, 2b) comprise, on the inner face (20a, 20b) thereof, a central projection (26) wherein their inner faces (260) are intended, after tightening, to come into abutment against each other.

5. Viewing device (1) according to any one of the preceding claims, characterised in that the thickness (e) of the two washers (22a, 22b) decreases from the centre of each washer towards their peripheral end (25), the smallest thickness being therefore located towards the peripheral end of each washer.

6. Viewing device (1) according to any one of the preceding claims, characterised in that the inner face (20a, 20b) of one of the washers is coated with a colour (31).

7. Viewing device (1) according to any one of the preceding claims, characterised in that the deformable ring (3) is implemented by a torique spring of the helical type, the two ends of the wires of which are secured together.

8. Viewing device (1) according to any one of the preceding claims, characterised in that the deformable ring (3) is produced from a solid material and cut in its cross section to allow diametral deformation.

9. Viewing device (1) according to any one of the preceding claims, characterised in that the cross section of the ring (3) forms a trapezial quadrilateral.

10. Viewing device (1) according to any one of the preceding claims, characterised in that the ring (3) includes a profile with a trapezoidal cross section one of parallel sides (4a) of which is oriented towards a peripheral exterior (25) of the washers.

11. Viewing device (1) according to claims 1 to 6 and 8 to 10, characterised in that the ring (3) includes bearing balls (50) disposed on surfaces intended to be in sliding contact with the inner faces (20a, 20b) of the non-deformable washers (2a, 2b), thus facilitating its movement.

12. Viewing device (1) according to any one of the preceding claims, characterised in that it includes a spring element (6) disposed between the non-deformable washers (2a, 2b) so that an axial thrust is provided, forcing separation thereof in the event of slackening of the device.

13. Viewing device (1) according to any one of the preceding claims, characterised in that the deformable ring (3) is produced from metal.