CLAIMS

1 - Retaining device for a threaded member, in particular for a nut (2), for retaining said threaded member while it undergoes an operation of screwing or unscrewing along a screw axis, or while it is in the screwed condition, the threaded member (2) comprising a linking shape with respect to the rotations about the axis and bearing at least indirectly on a part (6) to be tightened by screwing action, the device comprising a body (12, 62) intended to be fastened to the part (6) and equipped with an anti-rotation shape (16) capable of preventing rotation of the threaded member (2) with respect to the part (6) while allowing a radial clearance (J) between the threaded member (2) and the body (12, 62), characterized in that said retaining device moreover comprises an intermediate element (19, 69) provided with:

- a shape (23) complementary to the linking shape (22), capable of producing a coupling opposing a relative rotation between the threaded member (2) and the intermediate element (19, 69),
  and
- coupling means (24, 28, 78) capable of producing, with the anti-rotation shape (16) of the body (12, 62) a coupling with radial clearance opposing a relative rotation between the intermediate element (19, 69) and the body (12, 62).

2 - Retaining device according to claim 1, characterized in that the coupling opposing a relative rotation between the threaded member (2) and the intermediate element (19, 69) is substantially without radial clearance.

3 - Retaining device according to claim 1 or 2, characterized in that the coupling opposing a relative rotation between the threaded member (2) and the intermediate element (19, 69) is substantially without rotational clearance about the axis (3).

4 - Retaining device according to any one of claims 1 to 3, characterized in that the coupling with radial clearance (J) also has a rotational clearance (R) about the axis (3).

5 - Retaining device according to anyone of claims 1 to 4, characterized in that the complementary shape (23) is designed to ensure said coupling with a linking shape (22) of a standard nut (2).

6 - Retaining device according to one of claims 1 to 5, characterized in that the complementary shape (23) is a splined bore.

7 - Retaining device according to anyone of claims 1 to 6, characterized in that the intermediate element (19, 69) is a ring, in particular a ring substantially closed about the axis (3).

8 - Retaining device according to claim 7, characterized in that the ring (19, 69) surrounds the threaded member (2) and is surrounded by at least part of the body (12, 62).

9 - Retaining device according to claim 7 or 8, characterized in that the coupling means (24, 28, 78) are formed on a radially outer surface (27) of the ring (19, 69), said radially outer surface having said radial clearance (J) with a radially inner surface (26) of the body (12, 62).

10 - Retaining device according to any one of claims 1 to 9, characterized in that the coupling means comprise radial teeth (28, 78) projecting into recesses (18, 68) in a cylindrical wall.

11 – Retaining device according to claim 10, characterized in that the teeth (28, 78) belong to the intermediate element (19, 69).

12 - Retaining device according to claim 11, characterized in that the recesses are notches (18) formed in an edge of the cylindrical wall, said edge pointing away from the part (6).

13 - Retaining device according to any one of claims 10 to 12, characterized in that a face of the recesses (18) forms a stop limiting the axial movement of the intermediate element (19) towards the part to be tightened (6).

14 - Retaining device according to claim 11, characterized in that the radial teet (78) are closed at their two axial ends thereby to retain the intermediate element (69) in the body (62) against movements in both directions, axially.

15 - Retaining device according to anyone of claims 1 to 13, characterized by comprising axial retaining means (29, 79) retaining the intermediate element (19, 69) captive in the body (12, 62).

16 - Retaining device according to claim 15, characterized in that the axial retaining means comprise a stop (29, 79) firmly fixed to the body (12, 62), retaining the intermediate element (19, 69) on its side facing away from the part to be tightened (6).

17 – Retaining device according to claim 16, characterized in that the stop (29) is borne by a cap (31) fastened to the body (12), preferably by crimping.

18 – Retaining device according to claim 17, characterized in that the cap (31) comprises a central opening (34).

19 - Retaining device according to one of claims 1 to 17, characterized in that the intermediate element (19, 69) is essentially not capable of deformation, in particular is inelastic.