Claims

1. A rotation assembly (100) for swivelling the seat of a chair to a default position, the rotation assembly (100) comprising:

a first connection element (200) comprising a spindle (220), and a knob (240), where the knob (240) is arranged on the spindle (220) at a nonzero distance from a central axis (221) of the spindle (220), and

a second connection element (300), comprising an engagement element (310),

where the second connection element (300) is rotatably engaged with the spindle (220), and where the engagement element (310) is configured to contact the knob (240) and to apply a non-zero force to the knob (240) in a direction at least in part perpendicular to the central axis (221) of the spindle (220).

2. The rotation assembly (100) according to claim 1, where the second connection element (300) further comprises

a retaining element (330), and

a first manual activation mechanism (340),

where the first manual activation mechanism (340) is configured to move the retaining element (330) between a retaining element first position and a retaining element second position, where the retaining element (330) is configured to engage with the knob (240) and to retain the knob (240) in a fixed position when the retaining element (330) is in the retaining element second position, and where the retaining element (330) is configured to be disengaged with the knob (240) when the retaining element (330) is in the retaining element first position.

3. The rotation assembly (100) according to any one of the preceding claims, where the second connection element (300) further comprises an elastic member (315) configured to force the engagement element (310) towards the knob (240).

4. The rotation assembly (100) according to any one of the preceding claims, where the second connection element (300) further comprises

a second manual activation mechanism (350),

where the second manual activation mechanism (350) is configured to move the engagement element (310) between an engagement element first position and an engagement element second position, where the engagement element (310) is configured to abut the knob (240) when the engagement element (310) is in the engagement element second position, and where the engagement element (310) is

configured to be disengaged from the knob (240) when the engagement element (310) is in the engagement element first position.

5. The rotation assembly (100) according to any one of the preceding claims, where the knob (240) is detachably connected to the spindle (220).

6. The rotation assembly (100) according to any one of the preceding claims, where the position of the knob (240) is adjustable along a radial direction of the spindle (220).

7. The rotation assembly (100) according to any one of the preceding claims, wherein the knob (240) has a cylindrical shape.

8. The rotation assembly (100) according to claim 7, where the knob (240) comprises a sleeve (242) that is configured to rotate around the central axis of the knob (240).

9. The rotation assembly (100) according to any one of the preceding claims, where the engagement element (310) comprises an engagement portion (316) configured to abut the knob (240), and where the engagement portion (316) comprises an elastic material.

10. The rotation assembly (100) according to any one of the claims 1 – 8, where the engagement element (310) comprises an engagement portion (316) configured to abut the knob (240) where the engagement portion (316) has a non-planar surface facing the knob (240), and optionally where the engagement portion (316) comprises an elastic material.

11. The rotation assembly (100) according to claims 9 or 10, where the engagement portion (316) has a curved surface facing the knob (240).

12. The rotation assembly (100) according to any one of the claims 9 - 11, where the engagement portion (316) is provided with a recess (317) configured to receive the knob (240).

13. The rotation assembly (100) according to any one of the preceding claims, where at least part of the surface of the knob (240) is covered by a low-friction material or an elastic material.

14. The rotation assembly (100) according to claim 1, where the engagement element (310) comprises a first elastic element (318) connected to the knob (240) and configured to apply the non-zero force to the knob (240).

15. The rotation assembly (100) according to claim 14, where the second connection element (300) further comprises

an additional engagement element (320) configured to contact the knob (240) and to apply an additional non-zero force to the knob (240) in an additional direction at least in part perpendicular to the central axis (221) of the spindle (220),

where the additional engagement element (320) comprises a second elastic element (322) connected to the knob (240) and configured to apply the additional non-zero force to the knob (240), and where the direction and the additional direction are non-parallel to one another.

16. A furniture comprising the rotation assembly (100) according to any one of the claims 1-15.