Title (en)

Slat raising/lowering and rotating apparatus for horizontal type venetian blind.

Title (de)

Auf-/Abtriebs- und Rotationsvorrichtung für die Lamellen von horizontalen Stores.

Title (fr)

Dispositif pour l'entraînement et la rotation des lamelles d'un store vénitien du type horizontal.

Publication

EP 0380346 B1 19940413 (EN)

Application

EP 90300811 A 19900125

Priority

- JP 732389 U 19890125
- JP 732489 U 19890125

Abstract (en)

[origin: EP0380346A1] In a slat raising/lowering and rotating apparatus for a horizontal type venetian blind, a raising/lowering cord (2) is wound onto a spindle (1) to raise the slats. In order to wind the raising/lowering cord (2) helically, the spindle (1) moves axially as it rotates. This is achieved by a screw thread (11) on the spindle (1) which co-acts with a rack (31) of a spindle bearing member (3). A spring (6) makes frictional contact with the spindle (1) and end projections (6a, 6b) capture a support (7), to which a ladder cord (5) for rotating the slats is attached. Rotation of the spindle (1) rotates the spring (6), driving the support (7) by abutment against one of the end projections (6a, 6b), and thus drives the ladder cord (5) to rotate the slats. Resistance by the ladder cord (5) and support (7) tend to tighten the spring (6), tightening its grip on the spindle (1). When the spring (6) has rotated enough, it contacts a stop (8), which resists further rotation and tends to loosen the spring (6), loosening its grip on the spindle (1) so as to reduce its frictional resistance to further rotation of the spindle (1). Because the ladder cord (5) is joined at the support (7), to form a loop, tension in the ladder cord (5) due to the weight of the slats is passed through the spring (6), and so does not tend to tighten the spring (6) and increase its frictional resistance to further rotation of the spindle (1).

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CPC (source: EP)

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Cited by

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