

Title (en)

Wrap clutch device for anti-reverse transmission and window blind using the same

Title (de)

Klemmwickelfedervorrichtung zur Meidung einer Rückwärtsbewegung und Fensterrollo mit einer solchen Vorrichtung

Title (fr)

Dispositif avec ressort spiral de serrage pour éviter un mouvement en arrière et store pour fenêtre avec un tel dispositif

Publication

EP 1498570 A1 20050119 (EN)

Application

EP 03018245 A 20030811

Priority

CN 03272646 U 20030717

Abstract (en)

An anti-reverse transmission for use in a window blind includes a fixed axle, a rotatable input shaft, an output shaft sleeved onto the fixed axle, a transmission shaft sleeved onto the output shaft and coupled to a linking rod of a window blind, the transmission shaft having a protrusion inserted into an opening in the output shaft, and a spiral spring fitted on the fixed axle within the output shaft. The spiral spring has two end tips suspended in the opening such that the spiral spring is radially expanded to disengage the output shaft from the fixed axle for rotation with the transmission shaft and the input shaft upon rotation of the input shaft, and the spiral spring is radially compressed to stop the output shaft from rotation when the transmission shaft receives a biasing force from the gravity weight of a blind body of the window blind. <IMAGE>

IPC 1-7

E06B 9/68

IPC 8 full level

E06B 9/32 (2006.01); **E06B 9/68** (2006.01)

CPC (source: EP)

E06B 9/32 (2013.01); **E06B 9/68** (2013.01); **E06B 2009/905** (2013.01)

Citation (search report)

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- [A] US 4424851 A 19840110 - KOHAYAKAWA HIROYUKI [JP]
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- [A] EP 0976909 A2 20000202 - GAPOSA SRL [IT]

Cited by

CN104295220A; CN104329010A

Designated contracting state (EPC)

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