

Title (en)
INTERACTIVE ACTUATING MECHANISM FOR LOUVERED COVERINGS

Title (de)
INTERAKTIVE BEDIENVORRICHTUNG FÜR JALOUSIEN

Title (fr)
MECANISME DE COMMANDE INTERACTIF DE DISPOSITIFS DE COUVERTURE DE FENETRE A VOLETS

Publication
EP 0733147 A4 19970226 (EN)

Application
EP 94901658 A 19931122

Priority
US 9311368 W 19931122

Abstract (en)
[origin: WO9514843A1] A louvered window covering (101), such as a vertical or horizontal venetian blind, is provided with a thermal actuator to automatically rotate slats (103) forming the louvered window covering (101) between open and closed positions. The actuator includes at least one shape memory alloy spring (145A) that, when heated above a predetermined temperature, extends to engage and move a rack (135A, B) that drives a pinion gear (133). The pinion gear (133) rotates, through a coupling mechanism (129), a rod (119) extending the length of the blind. A second shape memory alloy spring (145B) may be installed to rotate the rod (119) in the opposite direction. The rod (119) intercouple the slats (103) in a manner such that the rotation of the rod (119) rotates the slats (103) in unison between closed and open positions. The shape memory alloy spring (145A, B) may be heated with a current supplied by a controller (401) in response to a predetermined environmental condition.

IPC 1-7
E05F 15/20

IPC 8 full level
E06B 9/36 (2006.01)

CPC (source: EP)
E05F 15/60 (2015.01); **E06B 9/364** (2013.01); **E05Y 2201/43** (2013.01); **E05Y 2800/67** (2013.01)

Citation (search report)

- No further relevant documents disclosed
- See references of WO 9514843A1

Cited by
CN111734284A

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IT LI LU MC NL SE

DOCDB simple family (publication)
WO 9514843 A1 19950601; EP 0733147 A1 19960925; EP 0733147 A4 19970226

DOCDB simple family (application)
US 9311368 W 19931122; EP 94901658 A 19931122