

Title (en)  
Winding tube for roller shutter

Title (de)  
Wickelwelle für Rolladenpanzer

Title (fr)  
Tube d'enroulement pour tablier de volet roulant

Publication  
**EP 0974727 B1 20030903 (FR)**

Application  
**EP 99401679 A 19990705**

Priority  
FR 9809288 A 19980721

Abstract (en)  
[origin: EP0974727A1] The tube has alternating section of two different radii, ensuring support of rolled blind and also ensuring grip on the motor drive within the tube. It has a rib formed in its circumference, extending parallel to axis, ensuring support on drive bearing. The tube for carrying the roll of material forming a roller blind comprises a series of alternating first and second channels (7,8). The channels lie alternately around the circumference of the tube and comprise a lower sections (8) which are in contact with the guide bearing (9), and upper sections (7) which are spaced away from the bearing. There may be three pairs of sections, situated at 120 degree intervals around the circumference of the tube. One of the lower sections (8) includes an upward facing notch (12) which enables it to cooperate with a projecting rib (13) on the outside of the guide bearing (9). This structure enables the drive from the motor-reducing gear to be applied to the roller blind support tube.

IPC 1-7  
**E06B 9/44**; **E06B 9/171**; **E06B 9/72**

IPC 8 full level  
**E06B 9/171** (2006.01); **E06B 9/44** (2006.01); **E06B 9/72** (2006.01)

CPC (source: EP)  
**E06B 9/171** (2013.01); **E06B 9/44** (2013.01); **E06B 9/72** (2013.01)

Cited by  
CN108086883A; CN103573135A; EP2208849A1; FR2941008A1; FR2874957A1; EP1635031A3; FR2816349A1

Designated contracting state (EPC)  
BE DE ES IT NL

DOCDB simple family (publication)  
**EP 0974727 A1 20000126**; **EP 0974727 B1 20030903**; DE 69910917 D1 20031009; DE 69910917 T2 20040722; DE 974727 T1 20000629; ES 2141072 T1 20000316; ES 2141072 T3 20040316; FR 2781520 A1 20000128; FR 2781520 B1 20000915

DOCDB simple family (application)  
**EP 99401679 A 19990705**; DE 69910917 T 19990705; DE 99401679 T 19990705; ES 99401679 T 19990705; FR 9809288 A 19980721