

Title (en)
A ROLLER SHUTTER WINDING LIFTING FRICTION DEVICE

Publication
EP 0096664 B1 19890913 (EN)

Application
EP 83830115 A 19830608

Priority
IT 8340682 A 19820609

Abstract (en)
[origin: EP0096664A2] A roller shutter winding lifting device comprising: a roller shutter support plate assembly (A) including a roller shutter winding bar connection (5) and on the inside three planetary gears 1, cooperating peripherically with a fixed toothed rim (D) and axially inside with a toothed pinion (14) of a driving clutch assembly (B) provided with a driving pulley (11) and a clutch device (20, 21, 14 min) cooperating with a free ratched wheel (18, 9), being said assembly (B) tightened and supported by a mounting plate (C) in such a way that: rotating the driving pulley (11) in one direction the friction (20, 21, 14 min) locks tightening the free ratchet wheel (19) allowing the free wheel movement transmission by means of the pinion (14), through planetary gears (11) and toothed rim (D) in reduced rotation of the roller shutter connection (5) in the same direction; whereas rotating the driving pulley (11) in the opposite direction the clutch device (20, 21, 14 min) is unclutched allowing the controlled rotation of the connection (5) for unwinding the roller shutter in the same direction, and this by means of a multi-start screw thread (15) which causes the clutching or unclutching of said free wheel clutch device (20, 19, 21, 14 min).

IPC 1-7
E06B 9/204; **E06B 9/206**

IPC 8 full level
E06B 9/68 (2006.01); **E06B 9/78** (2006.01)

CPC (source: EP)
E06B 9/68 (2013.01); **E06B 9/78** (2013.01); **E06B 2009/905** (2013.01)

Cited by
EP0940553A3; EP0163927A3; EP0692605A1; FR2722183A1; US6953074B2; EP0211660A3; US5117893A; US9714539B2; US10337243B2; US10808457B2; US11230885B2

Designated contracting state (EPC)
AT BE CH DE FR GB LI LU NL SE

DOCDB simple family (publication)
EP 0096664 A2 19831221; **EP 0096664 A3 19851016**; **EP 0096664 B1 19890913**; AT E46386 T1 19890915; DE 3380569 D1 19891019; IT 1158117 B 19870218; IT 8283406 A0 19820609

DOCDB simple family (application)
EP 83830115 A 19830608; AT 83830115 T 19830608; DE 3380569 T 19830608; IT 8340682 A 19820609