

Title (en)
ROLLER DOOR WITH A FLEXIBLE DOOR LEAF

Publication
EP 0330822 A3 19910403 (DE)

Application
EP 89100890 A 19890119

Priority
DE 3807134 A 19880304

Abstract (en)
[origin: EP0330822A2] The roller door possesses a flexible door leaf which can be wound onto a winding drum (1) which is mounted rotatably above the door opening surrounded by a door frame and which is pretensioned in the winding direction by a helical torsion spring (20, 21), and an electric motor (9) which transmits a torque to the winding drum (1). So that the helical torsion spring can increase to any desired diameter without impinging on other components, and so that the torsion spring is readily visible for monitoring purposes and easily accessible for maintenance purposes and, if appropriate, for exchange, a freely rotatably mounted shaft (10) which passes through the torsion spring (20, 21) is provided which is rigidly connected with one end to the torsion spring (20, 21), while the other end of the torsion spring (20, 21) is held fixed on the frame. The shaft (10) is in drive connection with the winding drum (1) as a result of gear means (15, 16, 17).

IPC 1-7
E06B 9/08

IPC 8 full level
E06B 9/60 (2006.01); **E06B 9/62** (2006.01); **E06B 9/70** (2006.01)

CPC (source: EP)
E06B 9/60 (2013.01); **E06B 9/62** (2013.01); **E06B 9/70** (2013.01)

Citation (search report)
• [AD] DE 8206622 U1 19820624
• [A] DE 3411665 A1 19851010 - SCHIEFFER GMBH CO KG [DE]

Cited by
NL1040419C2; FR2674566A1; EP0729856A1; NL1040420A; GB2534082A; GB2534083A; GB2534082B; GB2534083B; WO2008023973A1; US9903157B2; US10208534B2; WO2015050434A1; WO2015050435A1

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

DOCDB simple family (publication)
EP 0330822 A2 19890906; EP 0330822 A3 19910403; DE 3807134 A1 19891026; DE 3807134 C2 19900628

DOCDB simple family (application)
EP 89100890 A 19890119; DE 3807134 A 19880304