

Title (en)
ROLLING DOOR

Title (de)
ROLLTOR

Title (fr)
PORTE A ENROULEMENT

Publication
EP 0565601 B1 19960619 (EN)

Application
EP 92903208 A 19920109

Priority
• SE 9200005 W 19920109
• SE 9100072 A 19910110

Abstract (en)
[origin: WO9212322A1] A roll-up door comprises a flexible door leaf (1) which is rolled up round an upper roller (2) and which, when unrolled therefrom, closes a door opening. A motor turns the roller (2) in both the unrolling and the rolling-up direction. Two upper pulleys (4), which are coaxial with the roller (2), are disposed one at each end of the roller so as to turn with the roller. Two ropes (6), each travelling over a lower pulley (5) provided in the lower part of the door opening, are, at one end, fixed to the free end of the door leaf (1) and, at the other end, fixed to an upper pulley (4) each, so as to be rolled up round the upper pulley when the roller (2) is turned in the unrolling direction and be unrolled from the upper pulley when the roller is turned in the rolling-up direction. The two upper pulleys (4) are of larger diameter than the roller (2). The upper pulleys (4) are connected to the roller (2) by a spring means (7) which is adapted, when the roller (2) is turned in the unrolling direction, to entrain the two upper pulleys (4) in this movement. The spring means (7) is so mounted that its spring tension increases when the roller (2) is thus turned owing to the fact that the upper pulleys (4) turn more slowly than the roller because of the difference in diameter.

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