

Title (en)  
Overhead door, especially for garages.

Title (de)  
Schwingtor, insbesondere für Garagen.

Title (fr)  
Porte basculante, en particulier pour garages.

Publication  
**EP 0103269 A1 19840321 (DE)**

Application  
**EP 83108836 A 19830907**

Priority  
DE 3233350 A 19820908

Abstract (en)

1. A manually actuated swing door (5), particularly for garages, of which the door leaf (11), resiliently held by levers (10), is guided in the lower region in the closed state as necessary through two lateral guide rollers (12) which are situated outside the door leaf and which bear constantly against guide surfaces (14) of a surrounding frame (7), which guide surfaces extend substantially vertically, the levers (10) being articulated, on the one hand laterally substantially in the middle region of the door leaf (11) and on the other hand in the vicinity of the upper ends of the guide surfaces (14), characterized in that the one end (20) of a first cable (22) is fixed in the region of the one guide roller (12), that this first cable (22), in a first component portion (23) is guided upwards, parallel to the one guide surface (14), is deflected substantially at right angles in the region of the one upper corner (27) of the surrounding frame (7), and in a second component portion (24) is guided parallel to the horizontal portion (9) of the surrounding frame (7) as far as the other upper corner (27) of the surrounding frame (7), is there again deflected substantially at right angles and in a third component portion (25) is guided substantially parallel to the first component portion (23) as far as the lower end region of the other of the other guide surface (14) and then, after another deflection substantially through a double right-angle, is guided upwards in a fourth component portion (26) and the other end of the first cable (22) is fixed to the other guide roller (12), that in the region of this other guide roller there is attached the one end of the second cable (21), that this second cable (21) in a first component portion (23) is guided upwards parallel to the other guide surface (14), is deflected substantially at right angles in the region of the other upper corner (27) of the surrounding frame (7) and in a second component portion (24) is guided parallel to the horizontal portion (9) of the surrounding frame as far as one upper corner (27) of the surrounding frame, is there again deflected substantially at right angles and in a third component portion (25) is guided substantially parallel to the first component portion (23) as far as the lower end region of the one guide surface (14) and then, after again being deflected through a substantially double right angle is guided upwards in a fourth component portion (26) and the other end (19) of the second cable (21) is fixed to the one guide roller (12), that an upper guide pulley (28, 29) is disposed in the region of each upper corner (27) of the surrounding frame (7) and a lower guide pulley (30, 31) is disposed in the lower end region of each guide surface (14) of the surrounding frame (7) to deflect each cable (21, 22), that each upper guide pulley (28, 29) for the two cables (21, 22) is constructed in the form of a double pulley with a common axis of rotation and that the upper and lower guide pulleys (28, 29 and 30, 31) are rotatable about axes (32) which extend perpendicular to the guide surface (14).

Abstract (de)

Das Schwingtor 5 weist ein durch Hebel federbelastet gehaltenes Torblatt 11 auf, das in geschlossenem Zustand im unteren Bereich gegebenenfalls über zwei seitlich ausserhalb des Torblatts liegenden Führungsrollen 12 an Führungsflächen eines Zargenrahmens geführt ist, wobei die Hebel 10 einerseits etwa im mittleren Bereich des Torblattes seitlich, andererseits in der Nähe des oberen Endes der lotrecht verlaufenden Flächen angelenkt sind. Im Bereich der einen Führungsrolle 12 ist das eine Ende 20 eines ersten Seils 22 festgelegt. Dieses erste Seil 22 ist in einem ersten Teilstück 23 parallel zur Führungsfläche 14 nach oben, im Bereich der einen oberen Ecke 27 des Zargenrahmens 7 etwa rechtwinklig umgelenkt und in einem zweiten Teilstück 24 parallel zum horizontal verlaufenden Teil 9 des Zargenrahmens 7 bis zur anderen oberen Ecke 27 des Zargenrahmens 7 geführt, dort wiederum etwa rechtwinklig umgelenkt und in einem dritten Teilstück 25 etwa parallel zu dem ersten Teilstück 23 bis in den unteren Endbereich der anderen Führungsfläche 14 geführt und dann nach nochmaliger Umlenkung um einen etwa doppelten rechten Winkel in einem vierten Teilstück 26 nach oben geführt. Das andere Ende des ersten Seils 22 ist in gleicher Weise in anderer Richtung geführt, so daß durch das Seil eine genaue Führung und Versteifung des Torblatts erhalten ist.

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**E05D 15/44**

IPC 8 full level  
**E05D 15/44** (2006.01)

CPC (source: EP)  
**E05D 15/445** (2013.01); **E05Y 2900/106** (2013.01)

Citation (search report)

- [X] DE 2627894 A1 19780105 - REINHARD HANS JUERGEN DR ING [DE]
- [A] FR 2127674 A5 19721013 - SRI CIR
- [A] FR 1174156 A 19590306

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