

Title (en)

Door with a wing positionable above the door opening and counterbalancing mechanism.

Title (de)

Tor mit einem oberhalb der Toröffnung ablegbaren Torblatt und Gewichtsausgleichs-Mechanismus.

Title (fr)

Porte avec un vantail positionnable au-dessus de l'ouverture de la porte et mécanisme d'équilibrage de poids.

Publication

**EP 0338225 A1 19891025 (DE)**

Application

**EP 89103875 A 19890306**

Priority

DE 3810760 A 19880330

Abstract (en)

A roller shutter forming a gate or door, consists of slats which are hinged together and which can be wound up onto a roller (2). The weight of the shutter is counter-balanced by balance weights (16) which are attached to the actuating chain (14). The actuating chain (14) passes around a toothed wheel (13) on the shaft of the roller (2) and around a guide wheel. The balance weights (16) are so positioned on the chain (14) that as the shutter is wound onto the roller (2) the balance weights pass around the guide roller so that the balancing force is reduced in proportion to the size of the part of the shutter (3) hanging vertically from the roller (3).

IPC 1-7

**E05D 13/00**; **E06B 9/20**

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [Y] BE 408456 A
- [Y] DE 3401477 A1 19850228 - CHAMBERLAIN MFG CORP [US]
- [A] CH 189344 A 19370228 - BAUMANN WILH [CH]

Cited by

FR2686367A1; DE102009048138B4; EP0526346A1; FR2679955A1; FR2689174A1; US5307857A; EP0562917A3; DE102009048138A1; WO2011050870A1

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