

Title (en)

ROLLER SHUTTER FOR WALL OR ROOF OPENINGS, ESPECIALLY THOSE WITH A SWINGING ROOF WINDOW

Publication

**EP 0383067 B1 19921104 (DE)**

Application

**EP 90101397 A 19900124**

Priority

- DE 8901615 U 19890213
- DE 8912065 U 19891011

Abstract (en)

[origin: US4995440A] A rolling shutter for wall or roof openings, especially in connection with a turnable roof window comprises a rolling shutter web composed of a plurality of rolling shutter elements pullable from one another for forming light gaps, a rolling shutter shaft for winding and unwinding of the rolling shutter web, supports for rotatably supporting the rolling shutter web, two parallel side walls connected with the supports for guiding lateral ends of the rolling shutter webs, an actuating device having a mechanism for an opening movement of the rolling shutter web and a pulling device engaging a free front end of the rolling shutter web and supporting or performing its closing movement, the rolling shutter elements including a front rolling shutter element and a rear rolling shutter element, a pulling rope connecting the front rolling shutter element and the rear shutter element, the pulling rope being fixedly connected with the rear rolling shutter element and being connected with the front rolling shutter element by means of a spring provided for closing of the light gaps, the spring having a force selected so that during starting an opening movement of the rolling shutter web at least the light gaps located between the front and rear rolling shutter elements are opened under the action of the pulling device and then the rolling shutter web is wound in an opening direction.

IPC 1-7

**E06B 9/68**

IPC 8 full level

**E04D 13/03** (2006.01); **E06B 9/11** (2006.01); **E06B 9/68** (2006.01)

CPC (source: EP US)

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Cited by

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