

Title (en)

Foldaway security shutter which can be folded and packed

Title (de)

Sicherheitsrolladen der zusammengefalt und gepresst werden kann

Title (fr)

Volet roulant de sécurité pouvant être replié et tassé

Publication

EP 0756062 A1 19970129 (EN)

Application

EP 96112078 A 19960726

Priority

IT TO950635 A 19950728

Abstract (en)

A foldaway security shutter is described, including a plurality of transverse elements (10) which slide between side guides (3) placed on the two opposite sides of an opening to be closed. The shutter has a closed position wherein the elements (10) extend along the guides, and an open position wherein the elements are assembled at the guides end. Each transverse element (10) comprises a first pair of lined up transverse rollers (5) and a second pair of lined up transverse rollers (6), wherein each pair of rollers (5, 6) engages with a corresponding pair of side guides (35, 36), parallel and placed side by side along the opening to be closed. Close to said guides end, the guides bend and form terminal parallel stretches (32, 33), spaced by a distance equal to the longitudinal dimension (L) of the elements (10), so that in the closed position the transverse elements (10) are assembled, folded and packed between the terminal stretches (32, 33). <IMAGE> <IMAGE>

IPC 1-7

E06B 9/06

IPC 8 full level

E06B 9/06 (2006.01); **E06B 9/18** (2006.01)

CPC (source: EP)

E06B 9/063 (2013.01); **E06B 9/0669** (2013.01)

Citation (search report)

- [YA] US 4610289 A 19860909 - SUGIHARA TOSHIHIKO [JP]
- [Y] AU 607346 B2 19910228 - ROLLUP IND PTY LIMITED
- [A] US 4379478 A 19830412 - LICHY DALE [US]
- [A] US 4303117 A 19811201 - LINDBERGH CHARLES
- [A] FR 2277225 A1 19760130 - GRIESSER AG [CH]
- [A] CH 611968 A5 19790629 - BAUMANN HANS PETER [CH], et al
- [A] FR 2007661 A1 19700109 - BERENBRINKER ANDREAS, et al
- [A] DE 3401477 A1 19850228 - CHAMBERLAIN MFG CORP [US]
- [A] US 4867220 A 19890919 - MATSUMOTO MASA HARU [JP], et al

Cited by

ITRM20110267A1; US5957181A; US6035917A; ITRM20110351A1; DE102005008225B4; ITUA20163351A1; US6640871B2; WO9842942A1; US6394167B1; US6886620B2; EP3176356A2

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