

Title (en)

ROLLER SHUTTER SLAT USED IN SOUNDPROOF SHUTTERS

Publication

**EP 0365908 B1 19930120 (DE)**

Application

**EP 89118742 A 19891009**

Priority

- DE 8813330 U 19881022
- DE 8813331 U 19881022

Abstract (en)

[origin: EP0365908A1] On roller shutters and roller shutter slats (6), which consist of aluminium strips (1) shaped to form hollow profiles, sounds are caused by "inner" and "outer" sources of sound. Thus, for example during the movement of the roller shutter, sounds occur in the hinge region and in the abutting longitudinal surfaces of the roller shutter slats. Depending on the sound generation, an impact-type solid-borne sound can be distinguished from a sliding and grinding sound. Outer sources of sound, such as wind and rain, can also act on the closed roller shutters and thereby cause the known drumming sound or the shaking or rattling of the roller shutter slats. The development and propagation of sound in roller shutters is now to be reduced by a method of production which is technically simple and corresponds economically to the conditions of a mass product, the roller shutter slat permitting interruption or damping of sound in different frequency ranges. For this purpose, the aluminium strips (1) are coated on one side with a plastic (2) and shaped with the coated side inwards to form a hollow profile, a double layer of the plastic coating being present between the aluminium strips at the connection ends (1a-f) of the roller shutter slats.

IPC 1-7

**E06B 9/15**

IPC 8 full level

**E06B 9/15** (2006.01); **E06B 9/17** (2006.01)

CPC (source: EP)

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Citation (examination)

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Cited by

EP2857627A1; EP2843177A1; NL1010075C2; US5770401A; CN117072046A; US5550146A; US5587399A; US5210924A; US5326569A; EP0446778A3; US5204147A; AU637877B2; WO2013126470A1

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