PATENT SPECIFICATION

658,145

Date of application and filing Complete Specification: June 7, 1949.

No. 15160/49.

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Index at acceptance:—**Classes 20(iii)**, B1(j2f: k); **and 137**, A2c1.

COMPLETE SPECIFICATION

Locking Device for Adjustable Louvre Shutters

I, NORMAN VICTOR APPLETON, a British Subject, of Gerler Road, Hendra, N.E.2, Brisbane, in the State of Queensland, Commonwealth of Australia, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to adjustable louvre shutters of that type in which the louvre slats are adjusted to open or closed position by two parallel operating bars disposed at one end of the shutter assembly.

The object of the invention is to provide means for locking such assemblies in the closed position, and also for preventing rattling of the louvres when so locked.

With this object in view the invention consists in a locking device for adjustable louvre shutters of the type incorporating two parallel operating bars, comprising a latch pivotally mounted on one of said bars and formed with a recess to engage over a detent pin on the other of the operating bars when the slats of the shutter are in closed condition.

In order to fully describe the invention reference is made to the accompanying drawings which depict a preferred embodiment thereof, and in which

Fig. 1 is a perspective view of the operating and locking means as applied to a conventional glass louvre shutter, shown in the open unlocked condition, and

Fig. 2 is an end elevation of the same in the closed and locked condition.

The conventional shutter illustrated comprises a plurality of louvre slats 3, 3 each mounted in an end bracket 4 pivoted at 5 on a vertical end channel 6 and moved to open or closed condition by vertical operating bars 7 and 8 oppositely oscillated by hand lever 9.

The locking device in accordance with the invention comprises a latch 10 pivotally mounted at 11 on operating bar 7 and overlying bar 8 and projecting through a recess 12 in the inner side of channel 6, where it is formed with a finger piece 13.

Latch 10 is formed on its underside with a recess 14, terminating in a curved nose 15, to co-operate with a detent pin 16 on operating bar 8, for the purpose of locking the shutter in closed condition. In the open condition of the shutter shown in Fig. 1, latch 10 is clear of pin 16, but as the shutter is moved to the closed condition shown in Fig. 2, the rising pin 16 contacts nose 15 of the latch and raises it until the pin enters recess 14 and the latch drops over the pin.

This engagement of the latch with the pin, effected either automatically or by hand, locks the shutter in closed condition. It will also be observed that the outer surface 17 of recess 14 is eccentric to pivot pin 11 of the latch and curves from its outer to its inner end towards the pivot point 11. Hence downward pressure on the finger piece 13 of the latch will urge the pin 16 towards the pin 11, thus urging the operating bars 7 and 8 closer together and so forcing the slats to fully closed position and prevent rattling.

To release the latch it is merely necessary to lift the finger piece 13, and so free the latch from pin 16.

The invention provides a simple and effective locking device for louvre shutters of the type hereinbefore described.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. A locking device for adjustable louvre shutters of the type incorporating two parallel operating bars, comprising a latch pivotally mounted on one of said bars and formed with a recess to engage over a detent pin on the other of the operating bars when the slats of the shutter are in closed condition.

2. A locking device for adjustable louvre shutters according to Claim 1 and in which the operative side of said recess is, from its outer to its inner end, curved towards the pivot point of the latch.

3. A locking device for adjustable louvre shutters of the type incorporating two parallel operating bars, substantially as herein described with reference to the accompanying drawings.

Dated this 7th day of June, 1949.

CRUIKSHANK & FAIRWEATHER,

[Price 2/-]

Price 2s. 8d.

* C L M S *

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[Price 2/-]

Price 2s. 8d.

* C L M S *

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