J. MORITZ.

TRANSOM LIFTER.

APPLICATION FILED SEPT. 12, 1911.

1,040,732. Patented Oct. 8, 1912.

Fig. 1.

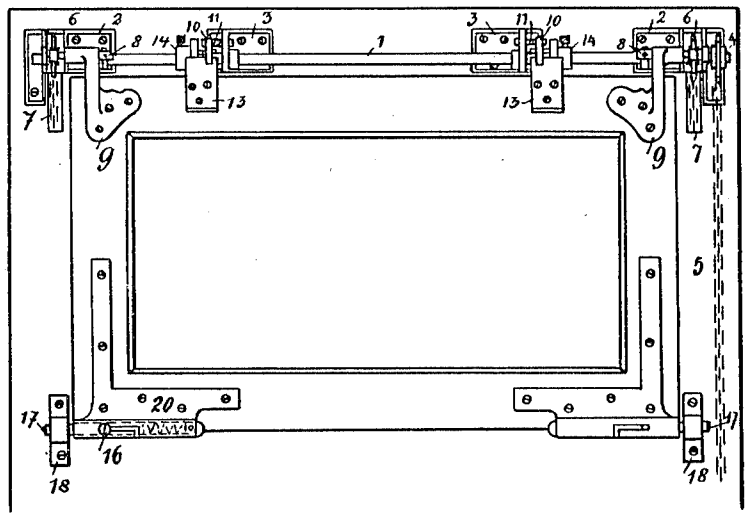


Fig. 2.

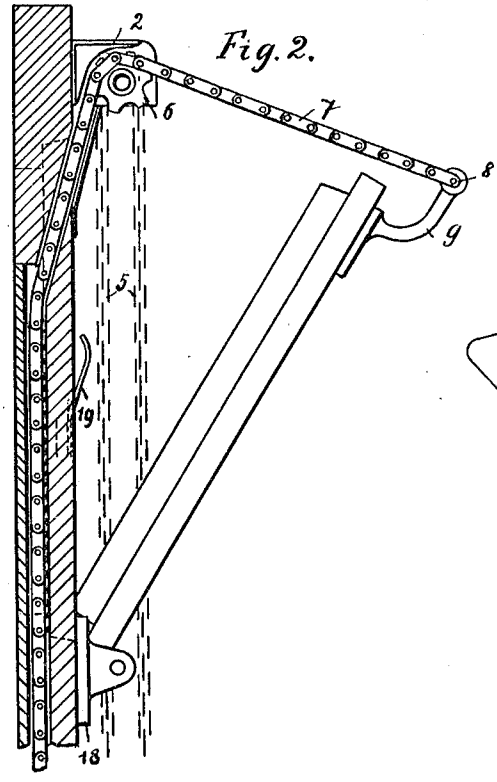
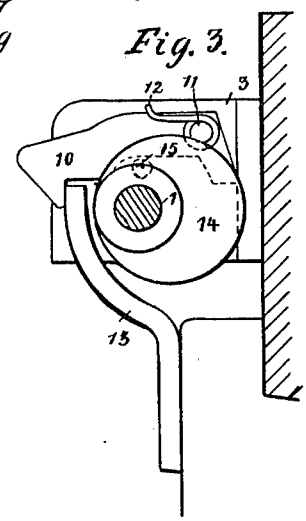


Fig. 3.



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TRANSOM-LIFTER.

1,040,732. Specification of Letters Patent. Patented Oct. 8, 1912.

Application filed September 12, 1911. Serial No. 648,828.

To all whom it may concern:

Be it known that I, JOSEPH MORITZ, a subject of the German Emperor, and resident of Dresden, Germany, have invented certain new and useful Improvements in Transom-Lifters, of which the following is a specification.

The present invention relates to improvements in transom lifters which are operated through the medium of a rotary axle, and it consists in that on the latter one or more eccentric disks are located, which, upon lifting the transom, disengage the locking hooks by means of lateral pins, while chain wheels are arranged, which are separated from each other by the width of the transom and by which through the medium of chains, which are suitably guided, the closing movement of the transom is effected until the same is locked by the locking hooks.

In the accompanying drawing, Figures 1 and 2 are respectively a front view and sectional side view of the improved arrangement, while Fig. 3 shows a detail of same in a side view.

The axle 1 is revolubly mounted on brackets 2 and 3 having bearings thereon. On one side of said axle a chain wheel 4 is keyed, over which the endless chain 5 is led, which at the lower end is led over an adjustable toothed wheel. Beside the chain wheel, two other chain wheels 6 are located on the axle 1, which serve to move the chains 7 holding the transom. The chain 7 is by bolt 8 fixed on a lug 9 screwed on the transom. The locking device consists of a closing hook 10, which is adapted to move on a bolt 11 fixed in the lug of the bearing 3 and to be depressed by means of a spring 12. When closing the skylight, the closing hook 10 snaps over a lug 13 fixed thereon and thereby locks the transom closed.

On the axle 1, an eccentric disk 14 is fixed, which, when turned, lifts the closing hook 10 and presses the transom away from its frame. The transom is pivoted by means of hinges 20, the pivot 17 of which can be removed in a manner well known in the art for lowering the transom. When the transom is opened by means of the disk 14 by pulling the handle of chain 5, it is, if desired, further opened by a spring 19 so far that it will turn over by its own weight except as held by chain 7.

For opening the transom, as already mentioned a handle of the chain 5 is pulled, whereby the axle 1 and thus the pin, which is fixed on the disk 14, is turned. Said pin lifts the closing hook 10, while at the same time the disk 14 opens the transom by action of spring 19. By a further pull on the handle of chain 5 the transom can be turned down for an angle of about 160°.

For closing the transom, the chain 5 is moved in opposite direction, the action being then the same as above described but vice versa.

To entirely lower the transom, the pivots 17 of hinges 20 are withdrawn and the chain 5 is somewhat attracted, whereby the lower end of the transom is lifted from its hinges. Upon the chain 5 being then moved in the required direction, the transom moves down as far as permitted by the length of chain 7.

I claim:

An improved means for operating hinged transoms, comprising in combination a rotary axle mounted on the frame of the transom on top of same, lugs on the transom, spring-pressed closing hooks on the frame of the transom adapted to engage said lugs in the closed position of the transom, eccentric disks on said axle having lateral pins designed, upon rotation of said axle, to disengage said hooks from said lugs, a hand chain gearing to rotate said axle, and holding chains on the transom to guide the same when being opened, substantially as described and shown.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

JOSEPH MORITZ.

Witnesses:
PAUL ARRAS,
CLÄRE SIMON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."