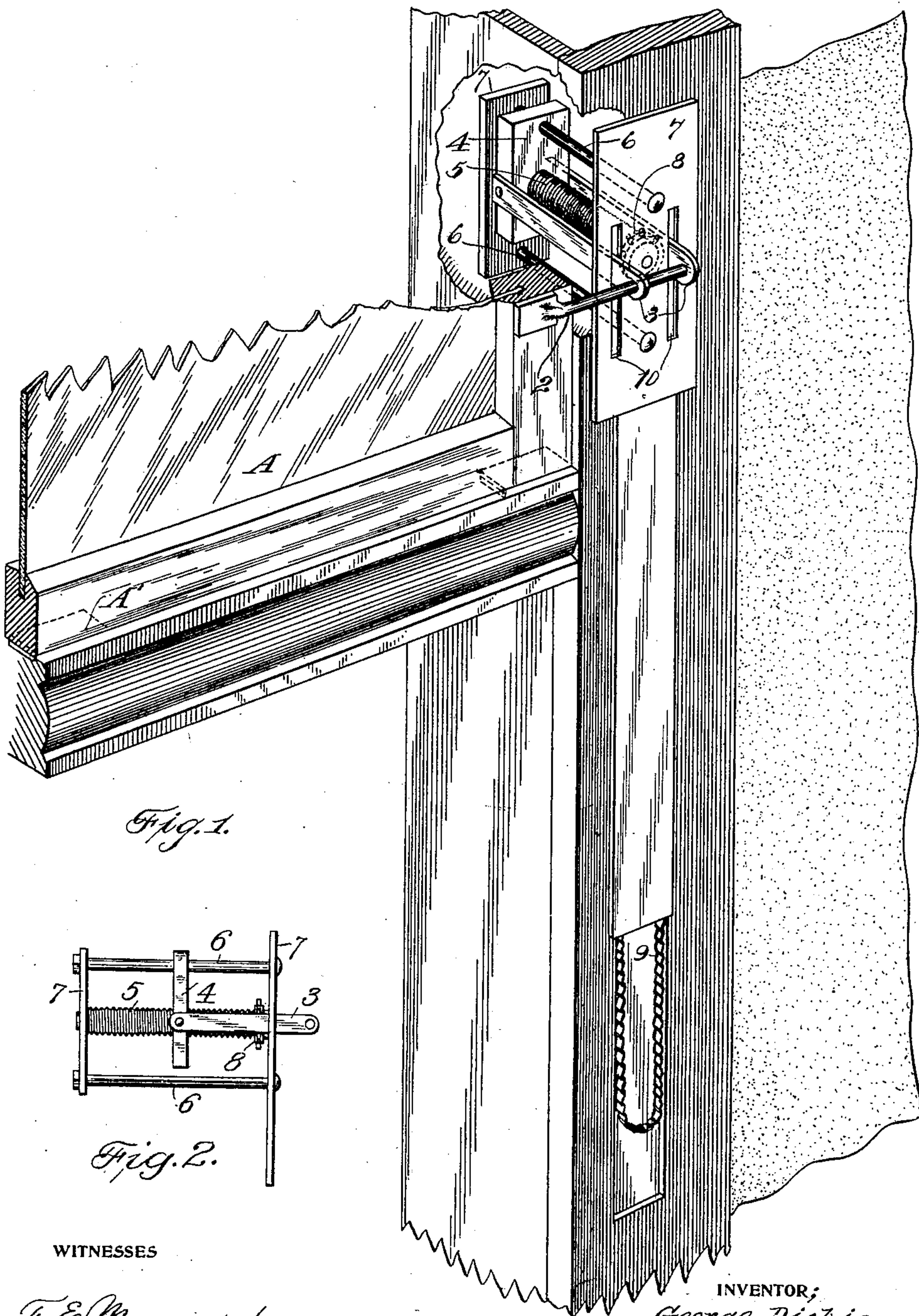


G. DICKIE.  
 SELF LOCKING TRANSOM OPERATING DEVICE.  
 APPLICATION FILED SEPT. 1, 1908.

925,163.

Patented June 15, 1909.



WITNESSES

*J. E. Maynard*  
*Chas. P. Pines*

INVENTOR;  
*George Dickie;*  
 BY *Geo. H. Strong.*  
 ATTORNEY



# UNITED STATES PATENT OFFICE.

GEORGE DICKIE, OF SAN FRANCISCO, CALIFORNIA.

## SELF-LOCKING TRANSOM-OPERATING DEVICE.

No. 925,163.

Specification of Letters Patent.

Patented June 15, 1909.

Application filed September 1, 1908. Serial No. 451,140.

*To all whom it may concern:*

Be it known that I, GEORGE DICKIE, citizen of the United States, residing in the city and county of San Francisco and State of California, have invented new and useful Improvements in Self-Locking Transom-Operating Devices, of which the following is a specification.

My invention relates to a device which is especially designed for the opening, closing and automatically locking of transoms and like closures.

It consists in a combination of parts, and in details of construction which will be more fully explained by reference to the accompanying drawings, in which—

Figure 1 is a perspective of the device as applied. Fig. 2 is a side elevation.

The object of my invention is to provide a means for readily opening and closing hinged or pivoted transoms which are usually located above doors or windows, and which are opened to a greater or less extent to provide ventilation.

My device is designed to automatically lock the transom at any point, whether closed or opened.

A represents a transom, which is hinged or pivoted as at A' so that the upper edge is movable in an arc of a circle about this hinge.

2 is a rod or bar fixed to the transom, and extending horizontally to a point where it is connected with the operating device. A connection is made by means of one or more links 3, and these links extend through a slotted plate and connect with a nut 4 which is adapted to travel with relation to a screw 5 so that as the nut is caused to travel forward or back by the revolution of the screw, it will advance the link 3, moving with it the rod 2, and this carries the transom so as to open or close it.

In Fig. 1, I have shown the screw 5 as having exterior threads, and the ends of the screw are journaled in plates 7. A sprocket-wheel 8 is fixed to the screw-shaft at some convenient point, preferably contiguous to the casing, and a chain 9 passing around this sprocket extends downward to a point within easy reach. This chain may be concealed in a groove or channel in the casing, or be otherwise covered for the upper portion of its length, leaving sufficient uncovered at the lower end by which to operate it. Or it may

pass around the sprocket at this point having a crank-shaft or other turning means, in which case the whole of the chain and sprocket might be concealed and only the operating device be exposed. The nut 4 in this construction is preferably guided upon rods, as at 6, which extend parallel with the screw, and the link or links 3 are pivoted to the nut, so that as the nut is advanced upon the screw, the outer ends of the links will move in a curve, the radius of which will be the distance of the rod 2 from the hinge A'. The plate 7 is slotted as shown at 10 so that the links may have a free vertical movement as the screw is advanced and the transom is opened or closed.

The whole device forms an efficient means for moving a transom, graduating its movements exactly, and automatically locking it in any position to which it may be set.

Having thus described my invention, what I claim and desire to secure by Letters Patent is—

1. In a transom opening, closing and locking device, a frame consisting of plates with parallel connecting rods, a casing within which said frame is inclosed, a horizontal exteriorly threaded screw having its ends turnable in the frame-plates, an interiorly threaded nut fitting the threads of the screw, said screw having a sprocket fixed at one end, an endless chain passing around said sprocket extending downward within reach of an operator, a hinged or pivoted transom, a bar fixed to said transom at a distance from the pivot, and intersecting the axis of the screw, links having one end pivoted to the sides of the nut, and the other end connected with the transom rod.

2. In a device for opening and closing transoms, a chambered and vertically channeled casing, a frame consisting of plates, with parallel connecting rods adapted to fit the chamber of said casing, the outermost of said plates having vertical channels made in it, a horizontal, exteriorly threaded screw journaled and turnable in the plates, said screw having a sprocket fixed thereto in line with the casing channel, an endless chain passing around the sprocket and hanging within the channel, a screw-threaded nut fitting the screw, said nut having an extension guided and movable upon one of the rods, links pivoted to the sides of the nut,

and extending through the channels of the  
face-plate, a hinged or pivoted transom, a  
bar fixed thereto at a distance from the pivot,  
and extending into line with the axis of the  
5 screw, said links having the outer ends con-  
nected with the bar.

In testimony whereof I have hereunto set

my hand in presence of two subscribing wit-  
nesses.

GEORGE DICKIE.

Witnesses:

HENRY P. TRICOU,

CHARLES A. PENFIELD.