J. F. BEATTY.

MECHANISM FOR OPERATING VENTILATORS, TRANSOMS, AND THE LIKE.

APPLICATION FILED DEC. 26, 1908.

930,589. Patented Aug. 10, 1909.

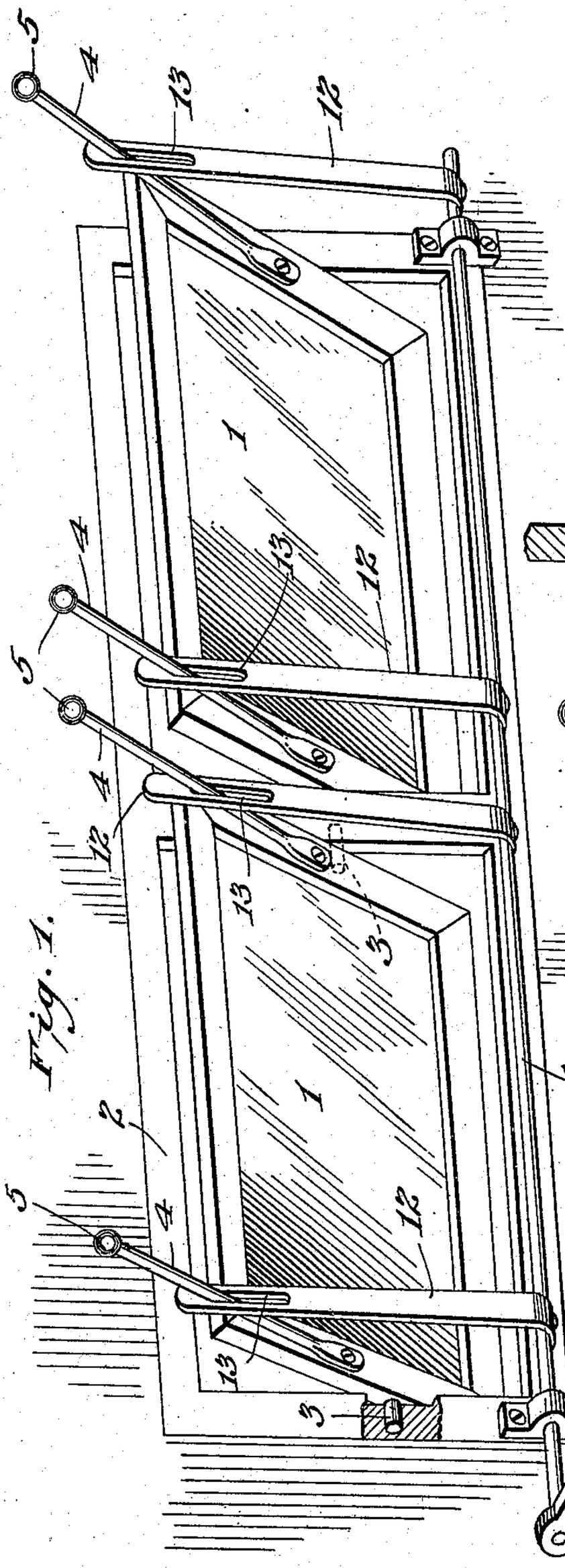


Fig. 1.

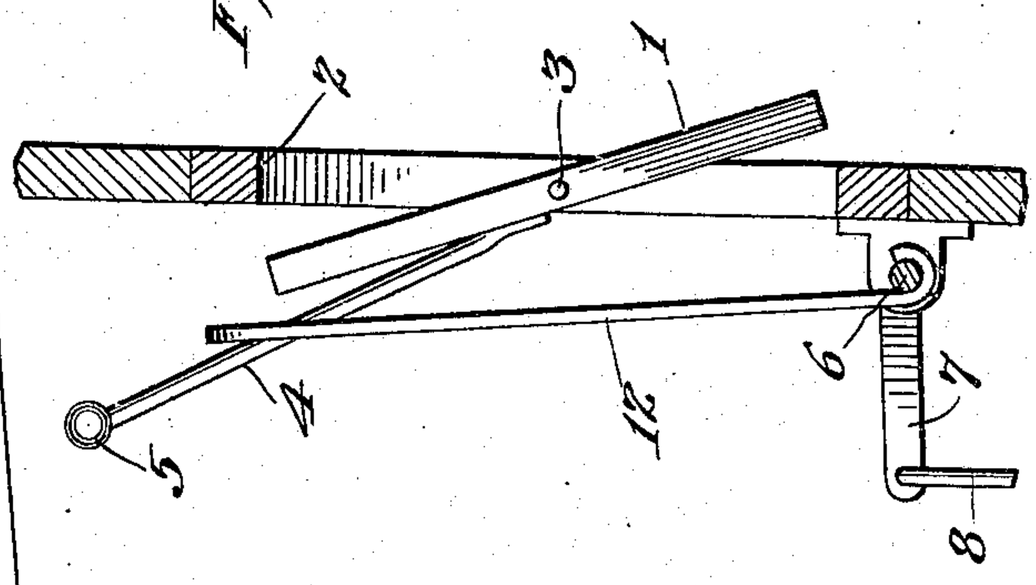
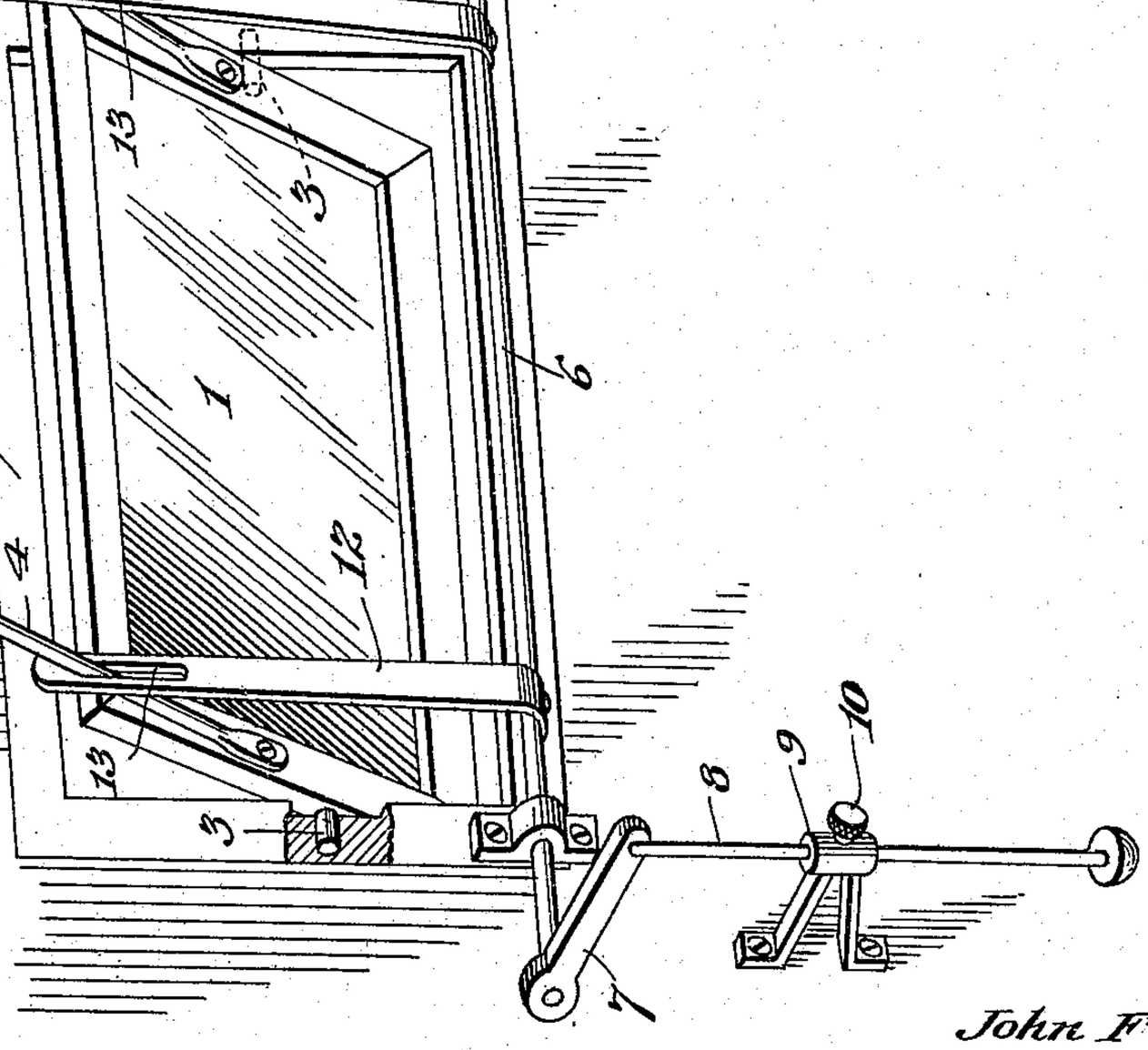


Fig. 2.



Witnesses

W. C. Lyddane.

J. D. L. Mulhall.

Inventor

John F. Beatty

By Joshua R. D. Potts.

Attorney

UNITED STATES PATENT OFFICE.

JOHN F. BEATTY, OF MORTON, PENNSYLVANIA.

MECHANISM FOR OPERATING VENTILATORS, TRANSOMS, AND THE LIKE.

No. 930,589. Specification of Letters Patent. Patented Aug. 10, 1909.

Application filed December 26, 1908. Serial No. 469,406.

To all whom it may concern:

Be it known that I, JOHN F. BEATTY, a citizen of the United States, residing at Morton, in the county of Delaware and State of Pennsylvania, have invented certain new and useful Improvements in Mechanism for Operating Ventilators, Transoms, and the Like, of which the following is a specification.

My invention relates to improved mechanism for operating ventilators, transoms, and the like, the object of the invention being to provide an improved mechanism of this character for simultaneously operating a series of ventilators, such as in ordinary use in street and railway cars, which enables the easy opening and closing of all of the ventilators, and constitutes locks for all of the ventilators when they are closed.

With these and other objects in view, the invention consists in certain novel features of construction, and combinations and arrangements of parts as will be more fully hereinafter described and pointed out in the claims.

In the accompanying drawings, Figure 1, is a perspective view illustrating my improvements, and Fig. 2, is a view in cross section.

1, 1, represent ventilators or transoms, pivotally supported in a frame 2 by means of pintles 3, and upwardly and outwardly inclined rods 4 are secured to the vertical bars of said ventilators, and are provided with enlargements 5 on their outer ends, as clearly shown.

6 represents a shaft supported in suitable bearings, and located at the lower longitudinal bar, of the frame 2, and provided at one end with a crank arm 7 to which a depending rod 8 is connected, and adapted, when moved vertically, to revolve the shaft 6, for a purpose which will hereinafter appear. This rod 8 is movable through a fixed collar 9, and a set screw 10 is located on said collar and adapted to clamp the rod and the shaft 6 against movement. A series of crank arms 12 corresponding in number to the rods 4, are secured to shaft 6, and are made with slots 13 in their upper ends to receive the rods 4. Hence when said shaft 6 is revolved in one direction, the crank arms 12 will be swung outwardly and will draw the rods 4 outwardly, and hence open the ventilators, and the parts can be secured at the desired angle of opening by means of the set screw 10.

To close the ventilators the rod 8 is moved upward, when the arms 12 will force the rods 4 upward and backwardly and close the transoms, and when in this position, theif set screw is screwed tightly against the rod 8, the ventilators will be securely locked in closed position and cannot be opened until the set screw 10 is loosened.

By providing the enlargements 5 at the free ends of the rods 4, which enlargements 5 are of greater diameter than are the diameters of the slots 13 in arms 12, the possibility of the arms 12 being swung out of contact with the rods 4 is precluded.

A construction of this kind is easily operated, can be cheaply applied to any construction of ventilator or transom, and while I have shown two ventilators, it is to be understood that my improvements are adapted for use with one, or with any number of ventilators or transoms in line.

Various slight changes might be made in the general form and arrangement of parts described without departing from my invention, and hence I do not restrict myself to the precise details set forth, but consider myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of my invention.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is:

1. In a mechanism of the character described, the combination with a shaft, and means for turning the same, of a rod adapted to be secured to a ventilator or transom and be disposed at an angle thereto, a crank arm on said shaft having a slot to receive said rod, and an enlargement on the free end of said rod of greater diameter than the slot in the arm.

2. In a mechanism of the character described, the combination with a shaft, a crank arm thereon, a rod connected to said crank arm and constructed to move the

same to revolve the shaft, a collar receiving said rod, and a set screw in said collar engaging said rod, of a series of ventilators or transoms, a series of rods secured to said transoms projecting upwardly and at an angle to said ventilators, and a series of crank arms on said shaft having slots at their free ends to receive said last mentioned rods.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN F. BEATTY.

Witnesses:
R. H. KRENKEL,
J. A. L. MULHALL.