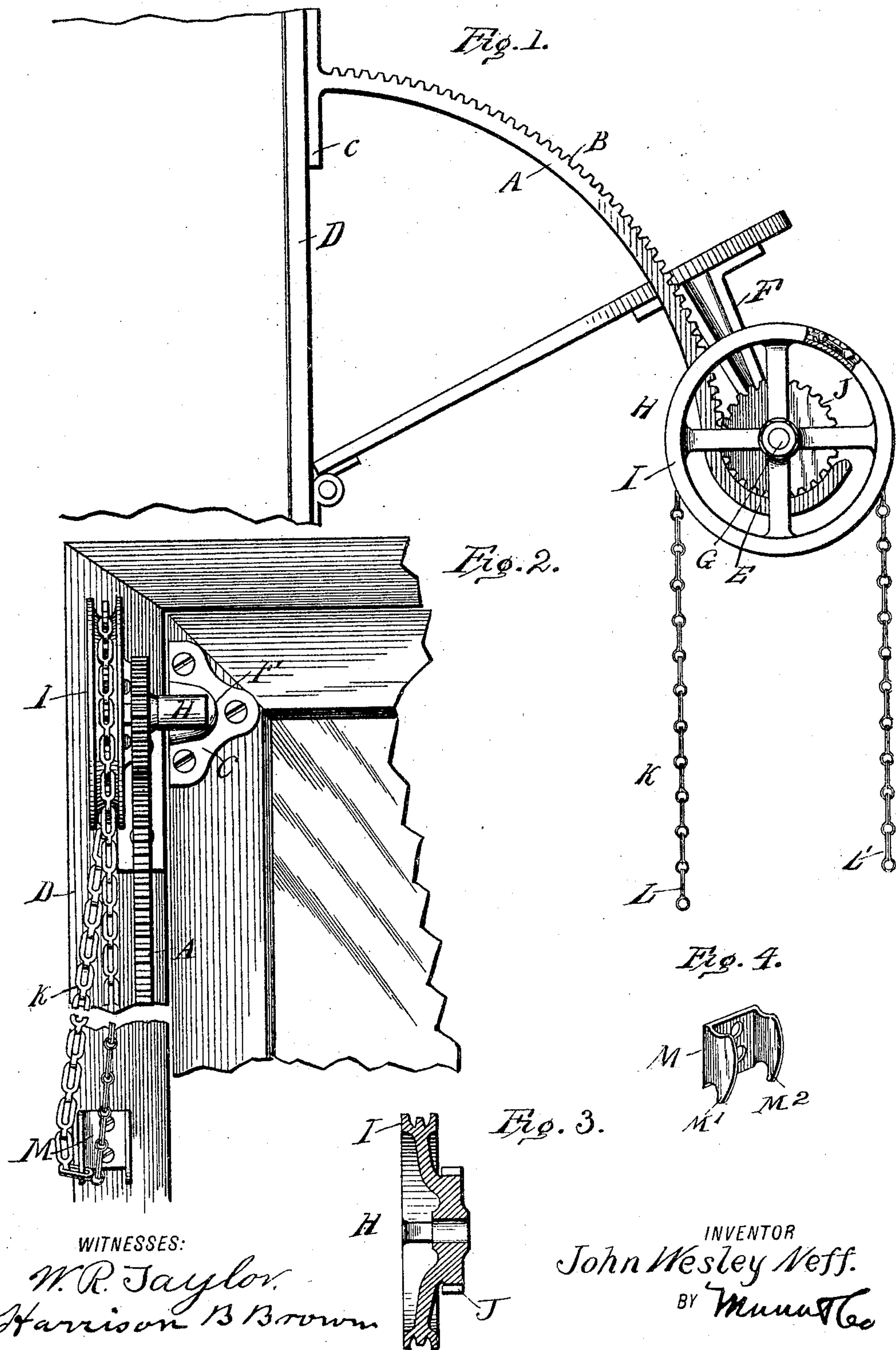


No. 798,526.

PATENTED AUG. 29, 1905.

J. W. NEFF.
TRANSOM LIFTER.
APPLICATION FILED MAY 6, 1905.



WITNESSES:
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UNITED STATES PATENT OFFICE.

JOHN WESLEY NEFF, OF MORGANTOWN, WEST VIRGINIA, ASSIGNOR OF
ONE-HALF TO W. W. GRAHAM, OF MORGANTOWN, WEST VIRGINIA.

TRANSOM-LIFTER.

No. 798,526.

Specification of Letters Patent.

Patented Aug. 29, 1905.

Application filed May 6, 1905. Serial No. 259,109.

To all whom it may concern:

Be it known that I, JOHN WESLEY NEFF, a citizen of the United States, and a resident of Morgantown, in the county of Monongalia and State of West Virginia, have invented a new and Improved Transom-Lifter, of which the following is a specification.

My invention relates to means for working or lifting transoms.

The object had in view is to provide means and devices adapted for the purpose stated which may not only be cheaply manufactured, but simple in construction and effective for easy working of pivoted or swinging transoms and windows in general having similar modes of attachment to their support.

The invention consists of the special construction, arrangement, and combination of parts shown by the accompanying drawings, hereinafter fully described, and definitely pointed out in the claim.

In the drawings, Figure 1 is a view illustrating my invention in side elevation and showing it applied to a fragmentary support. Fig. 2 is a front elevation, part broken away, the view showing a portion of a transom and its frame. Fig. 3 is a central transverse sectional view taken through the combined sprocket and gear wheel or traveler, and Fig. 4 is a perspective view illustrating one form of hook device that may be employed in the make-up of my improved lifting devices.

In the practice of my invention I employ a curved arm or rack A, having cogs or rack-teeth B on its upper side, a suitable base C, providing an attaching-base to the transom or window frame D and constructed hooked or upwardly curved at its free end, as indicated at E.

For fixed attachment to the transom or window I provide an arm or post F, having a lateral projection or journal G at its outer or free end. On the journal I arrange my improved traveler H. The traveler is designed to freely rotate on the journal G. It is constructed with a drum-like sprocket-wheel I, having a reduced gear-wheel J on its inner side. The gear and sprocket wheels are preferably constructed in one piece and formed as best shown in Fig. 3.

It is obvious that the sprocket-wheel teeth should be adapted for free mesh with the teeth B on the rack-arm A and that the lat-

ter's hooked or curved outer end E should provide a stop against downward rolling action of the gear-wheel on the rack-arm and also afford retaining-support therefor with the transom or window held at open position, as will be understood upon reference to Fig. 1 of my drawings.

In connection with the drum or sprocket-wheel I, I employ a link chain K, which may be endless, as illustrated in Fig. 2, or have free ends L L', as shown by Fig. 1. For holding the chain K, I employ a device M, having hooked points M' M², adapted to be secured within easy reach on the transom or window frame D. Obviously the chain may be lengthened, extending upward from a lower floor to a transom or window located at a floor two or more floors above, and can be used on right or left of door, also operated to open up or down.

The construction of my invention will be understood from the above description. In its use, supposing the transom or window is closed and locked—closed by engagement of one of the links in the L side or portion of the chain K with one hooked point M' on the fixed device M—and it should be desired to open the transom or window upon disengagement of this side of the chain it is obvious that by gravity the gear-wheel J will roll down the rack-bar A to stopped position in the curved end E of the rack-bar. The transom or window may be secured at open position by engagement of one link in the L' portion or side of the chain K with the hooked point M² on the fixed device M.

To raise or close the transom or window, it becomes necessary simply to disengage the L' side of the chain K and pull on its L side or portion. This action will, through engagement of the chain-links with the sprocket-wheel teeth, effect a rolling operation of the sprocket-wheel up the rack-bar A and closure of the transom or window and in which position it may be secured by engagement of a link in the L side or portion of the chain K with the hooked point M', of the fixed device M.

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

The combination in a transom-lifter, of a projecting arm, having one end adapted for attachment to a fixed support, the arm be-

ing fashioned into a downward curve, from
its fixed to its free end, and having its free
end disposed, curved upwardly, rack-teeth
on the upper side of the arm, a traveler con-
5 sisting of a combined sprocket-wheel and a
suitable gear-wheel, with the latter's cir-
cumference made conforming to the curved
free end of the arm, a standard adapted for
attachment to the transom-sash, a journal
10 at the free end of said standard, the same
providing suitable support for the combined

sprocket and gear wheels, a link chain ar-
ranged on the teeth of the sprocket-wheel,
and a device located below the transom,
adapted for engagement with the chain, for 15
holding the transom-sash, as adjusted, sub-
stantially as described.

JOHN WESLEY NEFF.

Witnesses:

ALVA H. McBEE,
JNO. H. MORGAN.