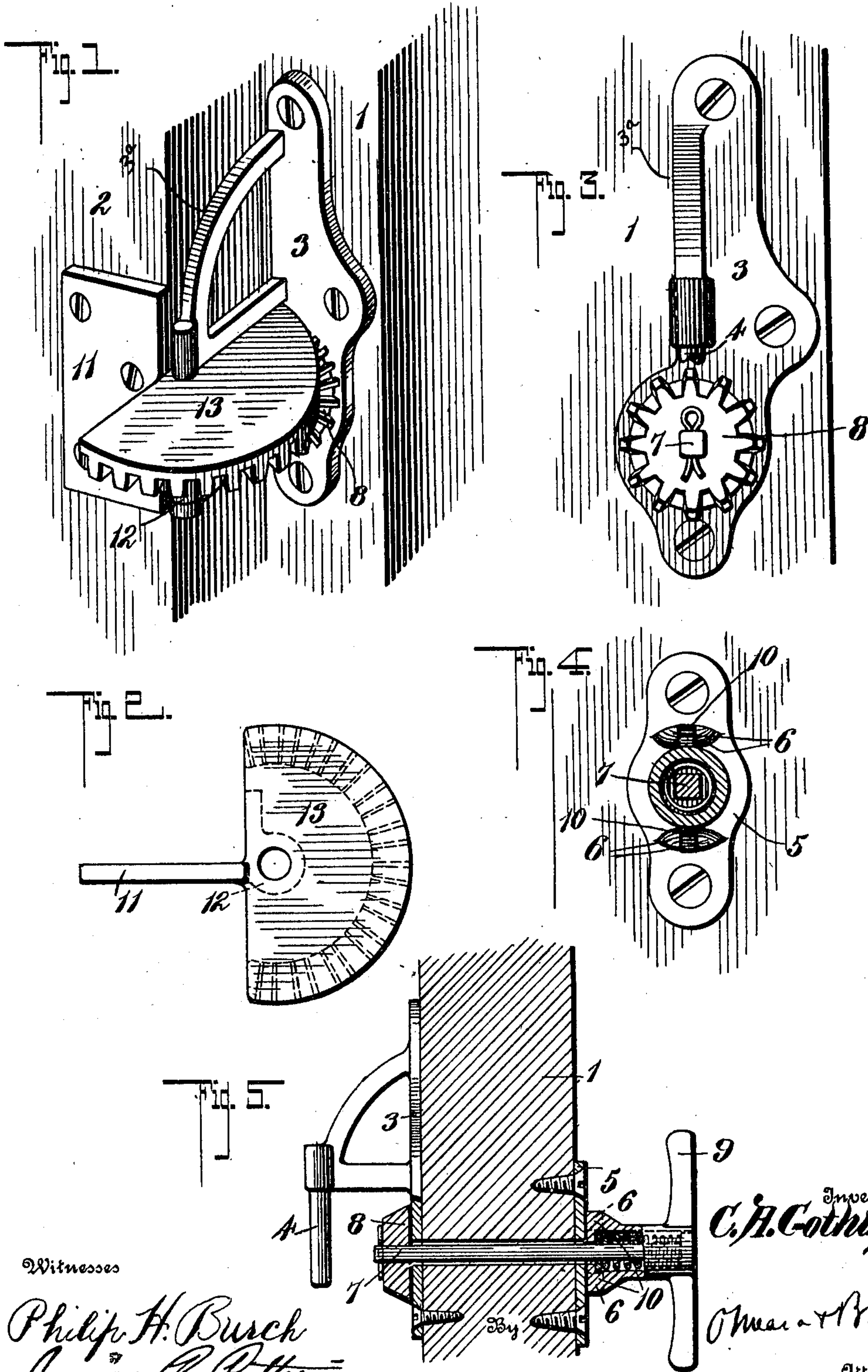


C. A. GOTHING.
SHUTTER WORKER.
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970,039.

Patented Sept. 13, 1910.



Witnesses

Philip H. Busch
James R. Patterson.

Inventor
C. A. Gothing,

Omar & Brock

Attorneys

UNITED STATES PATENT OFFICE.

CHARLES A. GOTHING, OF WORCESTER, MASSACHUSETTS.

SHUTTER-WORKER.

970,039.

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To all whom it may concern:

Be it known that I, CHARLES A. GOTHING, a subject of the King of Sweden, residing at Worcester, in the county of Worcester and State of Massachusetts, have invented a new and useful Improvement in Shutter-Workers, of which the following is a specification.

This invention relates to a combined opening, closing and fastening device for window shutters.

The object of the invention is a device of this character operable from only the inside of the house and by means of which an outside shutter can be locked in either open or closed position and can be swung into either position.

The invention consists in the novel features of construction hereinafter described, pointed out in the claim, and shown in the accompanying drawings, in which—

Figure 1 is a perspective view of my device applied to a shutter, with the shutter in closed position. Fig. 2 is a detail view illustrating that portion of the device which is connected to the shutter. Fig. 3 is a detail view showing that portion of the device attached to the building. Fig. 4 is a detail sectional view illustrating the position occupied by the locking mechanism when the blind is locked in closed position. Fig. 5 is a longitudinal section taken through that portion of the device carried by the building.

In these drawings 1 represents the wall of the building and 2 a window blind or shutter. To the wall is secured a plate 3 provided with an outwardly extending bracket 3^a which carries a pintle 4. Upon the interior of the wall 1 is fixed a plate 5 which is provided with oppositely arranged lugs 6 formed in pairs, and slightly spaced apart. A shaft 7 is journaled in the plates 3 and 5 and carries at its outer end a beveled pinion 8 and upon its inner end a slidable spring pressed handle 9, this handle being provided upon opposite sides with ears 10 which fit between the lugs 6 when in locked position. By drawing the handle outwardly along the shaft it can then be disengaged from said lugs and given a half rotation and then again moved inwardly into engage-

ment with said lugs. A plate 11 is secured to the shutter and this plate carries a sleeve 12, which fits over the pintle, and also carries a segmental gear 13, which meshes with the pinion. The pairs of lugs are so assembled with respect to each other that when the ears 10 are locked in engagement with the lugs in one position of the handle, the blinds are in a closed position and are locked in such position and can be opened only by disengaging the handle 9 from said lugs, in order to permit rotation of the pinion and gear. Upon such release and a half rotation of the handle the shutter is swung open and lies back against the wall of the house, and is again locked in its open position.

As at present constructed the center pins of the shutter hinges stand about one and one-fourth inches from the window frames, which lessens strain on the hinges and gives the smallest allowance for heavy winds to injure the shutters. This space is not sufficient for the introduction of a complete beveled gear substantial enough to stand the hard usage to which it would be subjected, and accordingly a segmental gear is employed which permits the use of a strong and substantial gearing and at the same time allows for the complete opening and closing of the window shutter.

It will be understood that in the case of deep windows the shaft is correspondingly increased in length.

What I claim is:—

A device of the kind described comprising a wall plate, a bracket projecting outwardly from the wall plate, a pintle carried by the bracket, a plate carrying a sleeve on one edge and adapted to be fitted against the inner face of a shutter, said sleeve receiving the pintle, a segmental gear carried by said sleeve, the gear when in position extending transversely across the shutter edge, a pinion meshing with said gear, and means for operating said pinion.

CHARLES A. GOTHING.

Witnesses:

E. W. NORDGREN,
CARL BERG.