

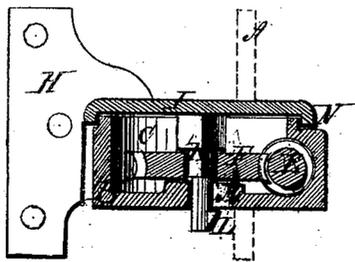
*A. C. Cornell,*

*Shutter Worker.*

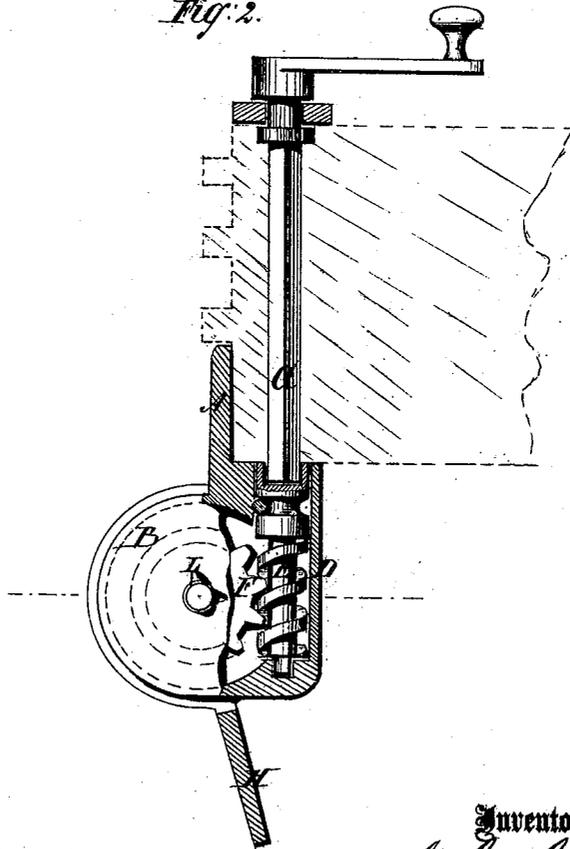
*No. 101,983.*

*Patented Apr. 19. 1870.*

*Fig. 1.*



*Fig. 2.*



**Witnesses:**

*W. F. Clark*  
*Jno. H. Brooks*

**Inventor:**

*A. C. Cornell*  
PER *Munn & Co.*  
**Attorneys.**

# United States Patent Office.

ABE C. CORNELL, OF ST. LOUIS, MISSOURI.

Letters Patent No. 101,983, dated April 19, 1870; antedated April 14, 1870.

## IMPROVED SHUTTER-WORKER.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, ABE C. CORNELL, of St. Louis, county of St. Louis and State of Missouri, have invented a new and useful Improvement in Window-blind Hinges; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings forming part of this specification.

This invention relates to improvements in hinges to be used for opening, closing, and locking the blinds by turning a shaft projecting through the window-frame to the interior of the building.

The invention consists in a certain improved arrangement and construction of parts as more fully hereinafter specified.

Figure 1 represents a sectional elevation of a hinge constructed according to my improvement, the section being taken on the line  $x x$  of fig. 2.

Figure 2 represents a bottom view of the same partly sectioned.

The leaf A, which is connected to the window frame, is provided with a large circular case, B, forming a vertical recess, C.

This case is provided at one side with an enlargement, D, which is bored or otherwise recessed for the reception of a worm, E, for gearing with a worm-wheel, F, to be placed in the center of the recess C.

This recess for the worm E is parallel with the wing A, and on the right side thereof for the worm, being socketed in the end, to receive the end of a shaft, G, projecting through the jamb.

The other leaf H of the hinge is provided with a disk, I, from the center of which projects a square-shanked pintle, K, which passes through the wheel F, and the bottom of the case B.

The said pintle has a lug, L, upon one side, which, when the blind or leaf H is turned to the right point, will pass through a slot, M, at the side of the hole in the bottom of the case B. This lug prevents the raising of the blinds off the hinges at all times, except when it is coincident with the said slot.

The disk I is provided with a downward-projecting flange, N, lapping the sides of the case B, so as to prevent rain, snow, or other matter from working into the case, by which the parts would be injured by corrosion, or filled with dust.

These hinges are made of all sizes, and may be applied to blinds already having other kinds of hinges at the top. The blind will be locked in any position by the action of the worm-gear T.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

A pair of window-blind hinges consisting of the leaves A H, case B, disk I, pintle K, with its fastening lug L, enlargement D, worm-wheel F and worm E, each of said parts being constructed and arranged with reference to the others in the manner described.

A. C. CORNELL.

Witnesses:

L. L. MELCHER,  
H. NIEMMEYER.