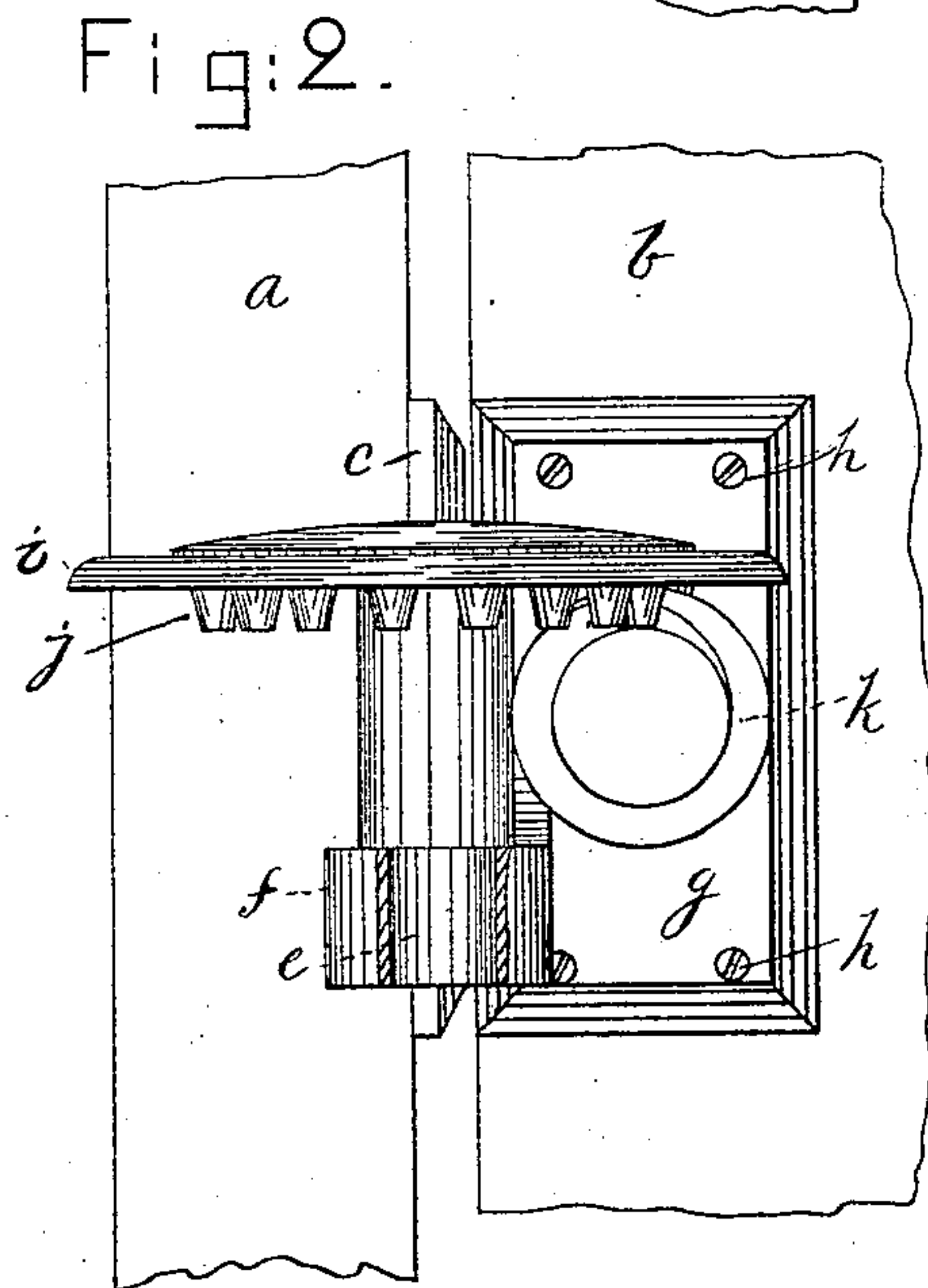
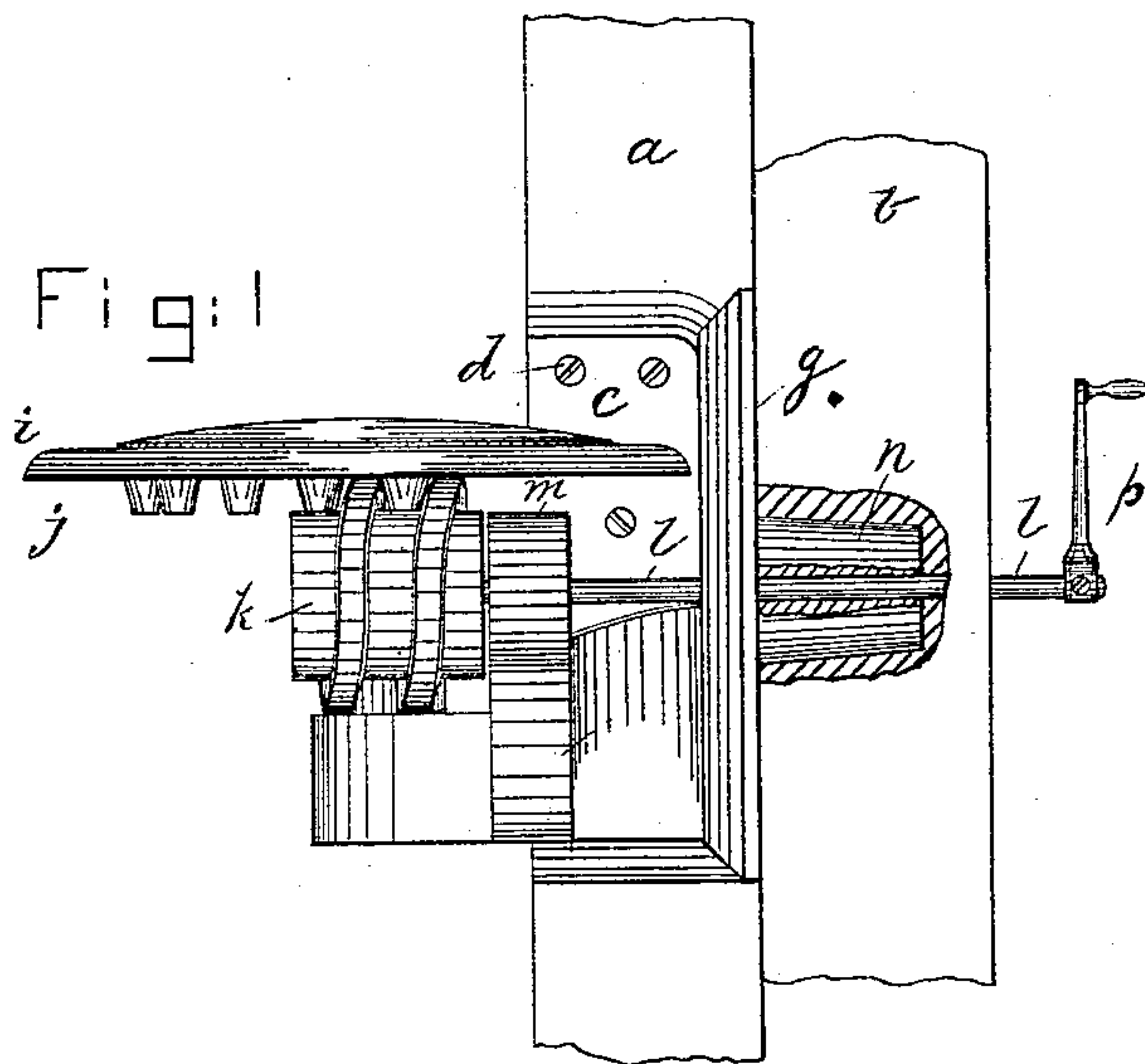


(No Model.)

F. H. MOORE.  
SHUTTER WORKER.

No. 246,186.

Patented Aug. 23, 1881.



WITNESSES

*Arthur Reynolds.*  
*Perme J. Hayes.*

INVENTOR-  
*Frederick H. Moore.*  
by *Crosby Gregory* Atty

# UNITED STATES PATENT OFFICE.

FRED H. MOORE, OF HOLBROOK, MASSACHUSETTS.

## SHUTTER-WORKER.

SPECIFICATION forming part of Letters Patent No. 246,186, dated August 23, 1881.

Application filed March 14, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, FRED H. MOORE, of Holbrook, county of Norfolk, and State of Massachusetts, have invented a new and useful Improvement in Blind-Hinge, of which the following description, in connection with the accompanying drawings, is a specification.

This invention has for its object a novel construction of blind-hinge, whereby the same may be operated from the interior of the building, and be locked or held in any desired position, either closed or partially or fully opened.

In a device embodying my invention that part of the hinge which is secured to the blind has a plate provided with a series of tapering pins arranged in a circle, and which are engaged by a worm at the end of a shaft having its bearings in that part of the hinge which is secured to the window-casing. The shaft carrying the said worm is extended through the side of the building or casing into the interior of the building, where it is provided with a handle, by which the said shaft and worm may be rotated in one or the other direction to cause it to open or close the blind. All this is common and old in shutter-workers of earlier date.

My invention consists in the improved construction and arrangement of parts, whereby the device is rendered more durable and effective than the earlier ones.

Figure 1 represents, in side elevation, a sufficient portion of a blind-hinge and blind and casing to illustrate my invention, and Fig. 2 is a front view thereof.

In the drawings, *a* represents a portion of a window blind or shutter, and *b* a portion of the window-casing. The hinge represented is that which is adapted to be applied to the lower end of the blind. That part, *c*, of the blind-hinge which is to be applied to the blind by screws *d* has a pintle, *e*, to enter a socket, *f*, project-

ing from that part, *g*, of the hinge which is attached by screws *h* to the window casing or frame *b*. The part *c* of the hinge has a circular plate or cap, *i*, provided at its under side with an annular series of tapering pins or teeth, *j*, which are engaged by the tooth of the worm *k*, secured to the end of the shaft *l*, having its bearings in an ear, *m*, of the part *g* of the hinge, and also in a projection, *n*, extended backward from the hinge part *g* into the casing *b*, as shown in Fig. 1, the inner end of the shaft *l* within the building having attached to it the handle or crank *p*, by which the shaft *l* and worm may be turned in one or the other direction, causing the tooth of the worm to engage the conical pins or teeth *j* of the plate *i* of the hinge-part *c*, and positively open or close the blind *a*, the blind being held or locked by the said worm in any position in which it may be left by the shaft *l*. The plate *i* prevents snow from being deposited upon the worm *k*. The weight of the blind to which the hinge part *c* is connected keeps the pins *j* pressed down into engagement with the tooth of the worm.

I claim—

The improved blind-operating hinge herein described, consisting of the part *c*, having the pintle *e* and toothed cap *i*, combined with the part *g*, having the rearward projection *n* and ear *m*, the worm *k* and its shaft *l*, supported in and by such projection and ear, and in operative connection with the cap *i*, and the socket *f* to receive the pintle *e*, all constructed and arranged as shown.

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

FRED H. MOORE.

Witnesses:

JOS. P. LIVERMORE,  
G. W. GREGORY.