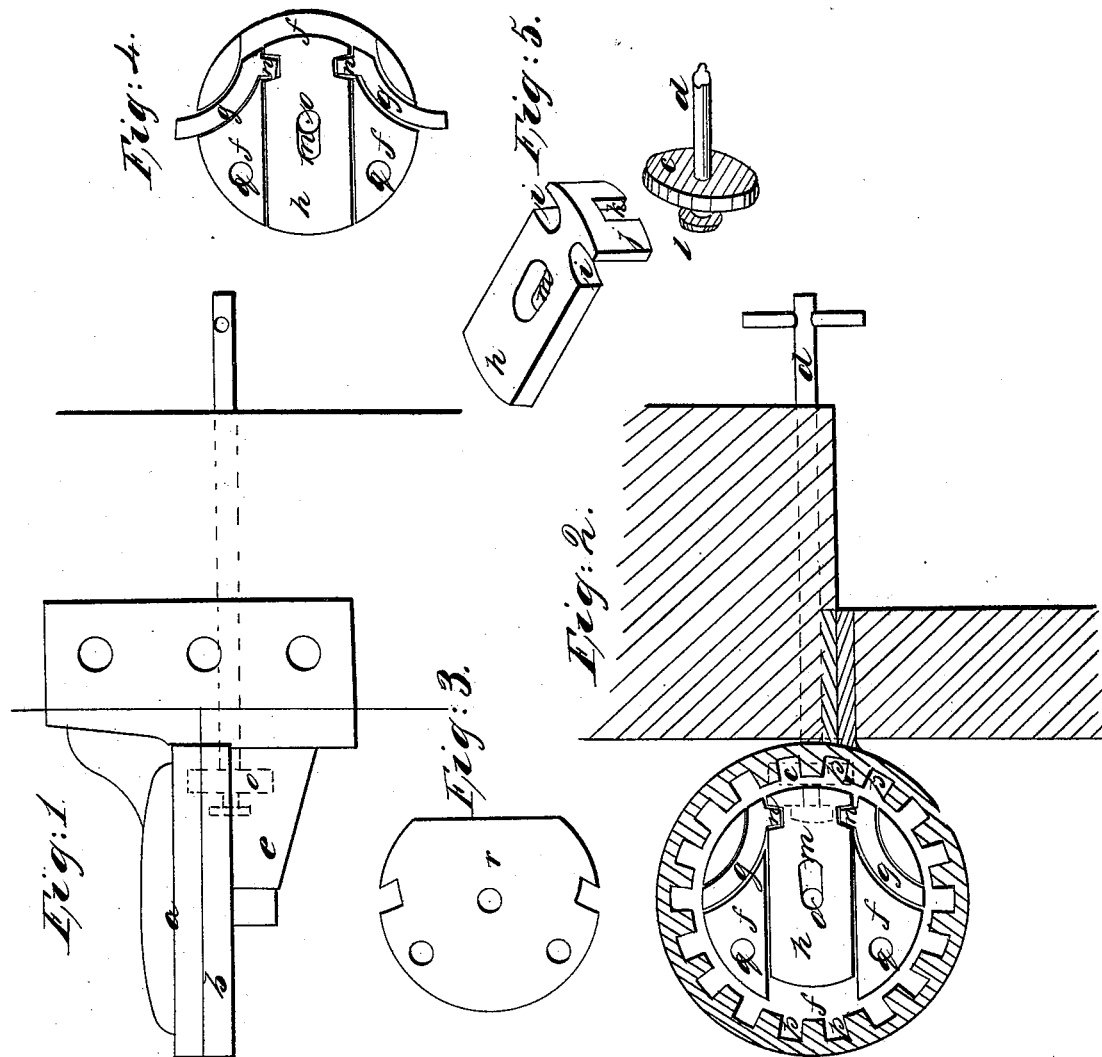


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*N<sup>o</sup> 7,091.*

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# UNITED STATES PATENT OFFICE.

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## METHOD OF BOLTING IN WINDOW-SHUTTER OPENERS AND FASTENERS.

Specification of Letters Patent No. 7,091, dated February 12, 1850.

*To all whom it may concern:*

Be it known that I, SAMUEL B. SNEDAKER, of Cincinnati, Hamilton county, Ohio, have invented new and useful Improvements in Mechanism for Opening, Closing, and Fastening Window-Blinds; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which drawings—

Figure 1, represents the general outline of the hinge, Fig. 2, is a top and sectional view of the same, and Figs. 3, 4 and 5 are details of the invention.

The nature of my invention consists in an arrangement of mechanism whereby a window blind operated from within the house, can be fastened in any desired position in such a way as at the same time to relieve the pintle of the hinge from any strain athwart its axis. This I effect by furnishing the upper and lower leaves of the hinge with disks, and inserting in grooves cut in the upper face of the lower disk, the several pieces necessary to fasten the upper leaf at any point of rotation, the lower face of the disk on the upper leaf having suitable notches and rack openings inward and downward, at its periphery for being rotated and fastened by means of a rod, operated within the room, which rod is furnished with a pinion that gears into the rack, and with a button which is straddled by a driver that projects the curved bolts lying in the grooves in the lower disk, into the notches on the upper disk.

In the annexed drawings, the hinge is exhibited as to its external features in Fig. 1. It will be seen that the disks (*a*) and (*b*) inclose and protect from the weather the operative parts within them, the pinion (*c*) on the rod (*d*) being inclosed in a box or other similar device (*e*) making part of the lower part of the hinge. In Fig. 2 (*f*) is the upper face of the lower disk (*b*) in suitable grooves in which, the quadrant bolts (*g*) and their driver (*h*) lie. The driver (*h*) has notches (*i*) near the end, at which it straddles—by a pendent projection (*j*) with a notch (*k*) therein—the rod (*d*) between the button (*l*) and the pinion (*c*). At the central portion of the body of the driver there is also a slot (*m*). The foregoing details are seen in (Fig. 5). Projections (*n*) on the adjacent ends of the bolts (*g*) fit into the notches (*i*). The pintle (*o*) projects upward through the slot (*m*)

into a socket suitably cast on the lower face of the upper disk (*a*). (*p*) are the notches and rack around the periphery of the lower face of the upper disk, the notches and rack, opening inward and downward. The bolts (*g*) and the driver (*h*) are in thickness the depth of the grooves in the disk (*b*). (*q*) are little projections thrown up from the face of the disk (*b*), and with the pintle are intended to pass up through a washer or cover (*r*) shown in Fig. 3. This washer lies between the disks, and keeps the bolts and driver in place; the washer being kept down on them, by the socket of the upper disk, into which the pintle projects as usual, bearing on the washer. Fig. 2 represents the bolts retracted. Fig. 4 represents the bolts projected.

Without entering more into the details of hinges, with disks attached to their upper and lower leaves, it will readily be perceived that I effect in a protected secure and simple way the opening or closing and fastening of the window blind, by rotating the rod (*d*) and operating the circular rack by means of the pinion (*c*), and then pushing the rod out so as to cause the driver (*h*) to force the bolts (*g*) into the notches (*p*). It is obvious that the driver (*h*) might be furnished with projections at its farther end from the rod (*d*), which projections could take into the notches (*p*). It will also be perceived that every piece of this mechanism for opening closing and fastening window blinds is or can be constituted of plain castings without rivet or screw to connect one part to another.

Having thus fully described the nature construction and operation of my invention, what I claim therein as new, and desire to secure by Letters Patent is—

Fastening the window blind at any suitable point by means of bolts projected on opposite sides of the pintle of the hinge by a driver the bolts and driver being suitably guided, and the bolts passing into suitable notches on a plate attached to the blind or to the upper leaf of the hinge, thus not only retaining the blind in any desired position, but also at the same time relieving the pintle of the hinge from any strain athwart its axis, the whole being arranged substantially in the manner and for the purpose described.

S. B. SNEDAKER,

Attest:

THOS G. CLINTON,  
GEO. HY KNIGHT,