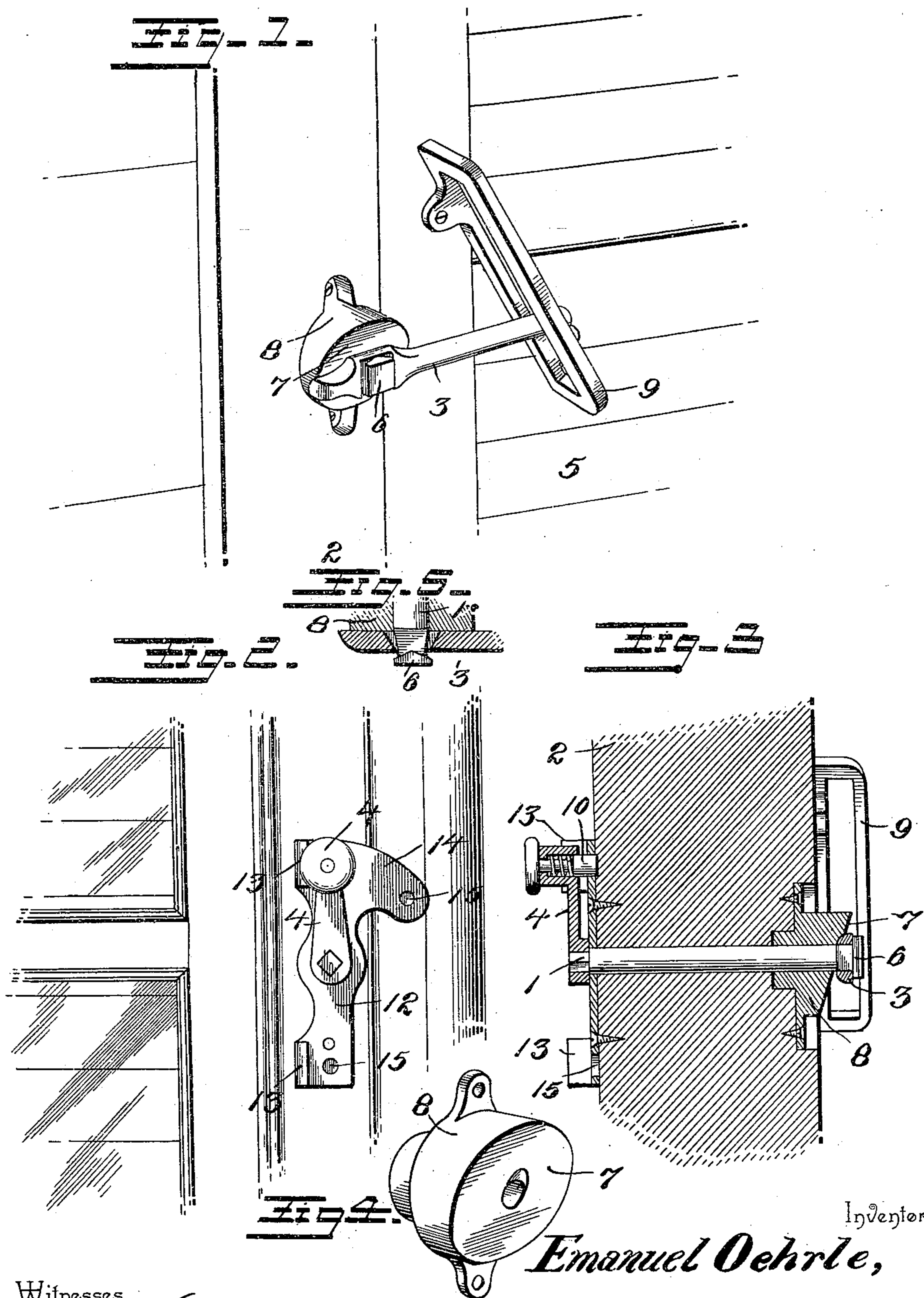


(No Model.)

E. OEHRLE.
SHUTTER WORKER.

No. 547,027.

Patented Oct. 1, 1895.



Inventor

Emanuel Oehrle,

Witnesses

W. J. Koertge.
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UNITED STATES PATENT OFFICE.

EMANUEL OEHRLE, OF OMAHA, NEBRASKA, ASSIGNOR OF ONE-HALF TO
HARRY B. ISZARD, OF SAME PLACE.

SHUTTER-WORKER.

SPECIFICATION forming part of Letters Patent No. 547,027, dated October 1, 1895.

Application filed July 29, 1895. Serial No. 557,483. (No model.)

To all whom it may concern:

Be it known that I, EMANUEL OEHRLE, a citizen of the United States, residing at Omaha, in the county of Douglas and State of Nebraska, have invented a new and useful Shutter-Worker, of which the following is a specification.

The invention relates to improvements in shutter-workers.

10 The object of the present invention is to improve the construction of shutter-workers and to provide a simple, inexpensive, and efficient device adapted to be readily applied to a window and capable of enabling an exteriorly-hinged shutter to be operated from the interior to open and close it, and adapted to lock the shutter in its open or closed position or at an intermediate point.

20 The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

25 In the drawings, Figure 1 is a perspective view of a portion of a window provided with a shutter-worker constructed in accordance with this invention, the shutter being closed. Fig. 2 is an elevation of a portion of a window illustrating the construction of the shutter-worker at the interior. Fig. 3 is a vertical sectional view, the shutter being closed. Fig. 4 is a detail perspective view of the exterior bearing. Fig. 5 is a detail sectional view illustrating the manner of attaching the outer arm 30 to the spindle.

Like numerals of reference indicate corresponding parts in all the figures of the drawings.

40 1 designates a horizontal shaft or spindle extending through a window-frame 2 and carrying at its outer end an arm 3 and provided at its inner end with a handle 4, whereby the outer arm, which is connected with the window-shutter 5, is manipulated to open and close the latter. The spindle or shaft 1 is provided at its outer end with a head 6, which has an oppositely-beveled inner face and which forms a fulcrum for the outer arm 3, and the latter is arranged on an inclined face 50 7 of an outer bearing 8 and is capable of an inward and outward movement on the fulcrum

formed by the head 6, in order to accommodate itself to the swing of the shutter. The outer arm 3 is arranged in a longitudinal opening of an inclined guide or keeper 9, which is 55 mounted on the outer face of the shutter, and the inclined face 7 of the bearing 8 extends upward and outward and holds the exterior arm rigid at any position of the shutter and guides the arm 3 in its movement, whereby 60 any rattling or independent movement of the shutter is prevented. The exterior bearing 8 may be secured to the window-frame in any desired manner, but is preferably provided at its top and bottom with perforated ears for 65 the reception of screws or other suitable fastening devices.

The spindle or shaft makes a half-revolution in swinging the shutter from its closed to its open position and from its open to its 70 closed position, and in order to secure the shutter in either position or at an intermediate point a spring-actuated bolt 10 is mounted on the handle or arm 4 of the spindle or shaft and is provided with a knob or button and is 75 adapted to engage perforations or sockets of a plate 12. The plate 12 is secured to the inner face of the window-frame by screws or other suitable fastening devices. It is provided at its top and bottom with lugs 13, forming stops for limiting the swing of the arm or handle 4, and it has at its top a lateral extension 14. Sockets or openings 15 are located at the top and bottom of the plate and at the outer extremity of the extension for the reception of the spring-actuated bolt, and additional sockets or openings may be provided, 85 if desired.

It will be seen that the shutter-worker is exceedingly simple and inexpensive in construction, that it is capable of enabling a shutter to be opened or closed from the interior without raising a window, and that it is adapted to lock the shutter at the desired adjustment. 90 95

Changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention. 100

What I claim is—

1. A shutter-worker, comprising a spindle

designed to be mounted on a window frame,
an exterior arm carried by the spindle and
capable of a limited inward and outward swing
to conform to the swing of the shutter, means
5 for connecting the arm with a shutter, and a
bearing having an inclined outer face receiv-
ing the outer arm and forming a support for
the same and guiding the arm in its movement,
substantially as and for the purpose described.
10 2. A shutter worker, comprising a spindle
designed to be mounted on a window frame
and provided at its outer end with a head
forming a fulcrum, an outer arm mounted on
and carried by the spindle and capable of an
15 inward and outward movement on the ful-
crum to conform to the swing of a shutter,
and a guide or keeper provided with a longi-
tudinal opening and receiving the outer arm
and designed to be secured to the exterior of
20 a shutter at an inclination, substantially as
described.

3. A shutter worker, comprising a spindle
designed to be mounted on a window frame,
and provided at its outer end with an arm and
having a handle at its inner end, a plate de- 25
signed to be secured to the inner face of a
window and provided at its top and bottom
with lugs to form stops, and having upper and
lower openings or sockets and having an open-
ing or socket at an intermediate point, a fas- 30
tening device mounted on the handle for en-
gaging the openings or sockets, and means for
connecting the outer arm with the shutter,
substantially as described.

In testimony that I claim the foregoing as 35
my own I have hereto affixed my signature in
the presence of two witnesses.

EMANUEL OEHRLE.

Witnesses:

E. F. RINGER,
JOHN E. ISZARD.