

(No Model.)

J. W. BRAINARD & A. D. SWAN.

WINDOW BLIND.

No. 367,358.

Patented Aug. 2, 1887.

Fig. 1.

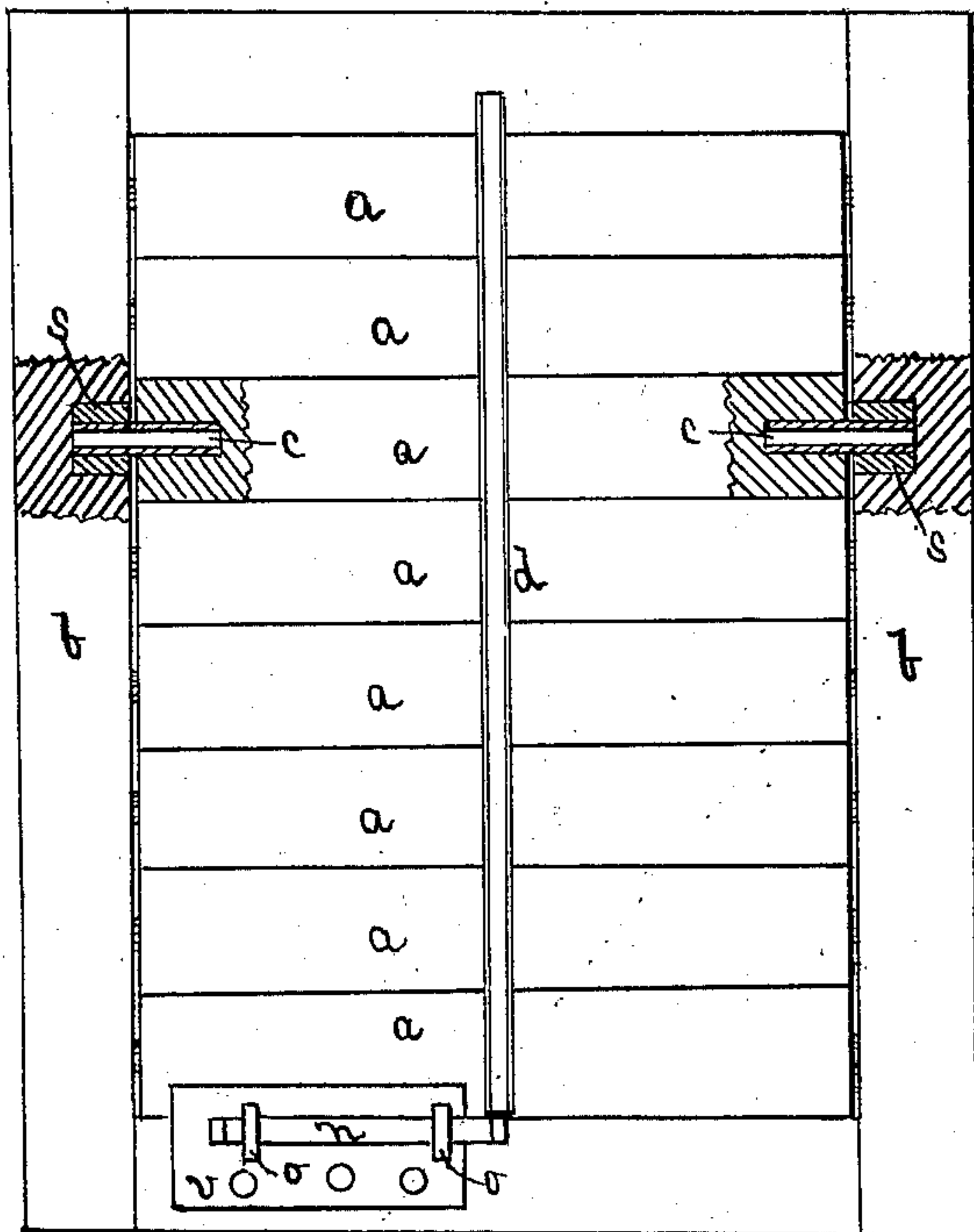
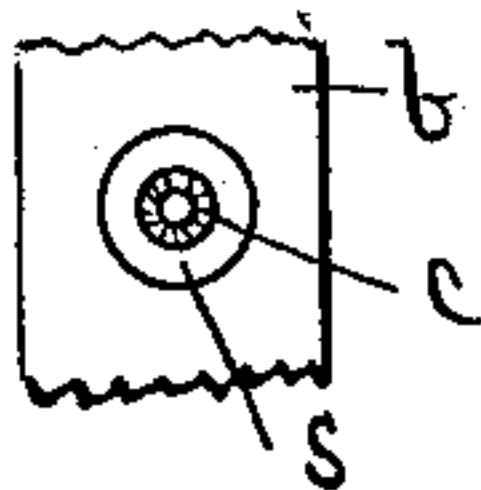


Fig. 2.



Attest
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UNITED STATES PATENT OFFICE.

JOSEPH W. BRAINARD AND ALANSON D. SWAN, OF KENT, ASSIGNORS, BY
MESNE ASSIGNMENTS, TO THE ELECTRIC BLIND SLAT COMPANY, OF
RAVENNA, OHIO.

WINDOW-BLIND.

SPECIFICATION forming part of Letters Patent No. 367,358, dated August 2, 1887.

Application filed August 12, 1886. Serial No. 210,706. (No model.)

To all whom it may concern:

Be it known that we, JOSEPH W. BRAINARD and ALANSON D. SWAN, citizens of the United States, residing at Kent, in the county of Port-
age and State of Ohio, have invented a new
and useful Improvement in Window-Blinds,
of which the following is a specification.

In the drawings forming a part of this specification, Figure 1 represents a window-blind
with parts broken away at the connection of a
slat with the stiles; and Fig. 2 is a cross section of a slat-tenon, showing the inner side of
a part of a stile.

The slats *a* are formed or provided at their
ends with tenons consisting of thin metallic
tubes *c*. These tubes, being formed of thin
sheet metal, may be driven into the ends of
the slats without splitting the latter. The
stiles *b* are formed with cylindrical holes to
receive short rubber tubes *s*, in which the slat-
tenons *c* are tightly inserted in order that the
compression of the rubber tube on the tenon
c may hold the slats in any position to which
they may be turned. Rubber tubes *s* should
be either glued in the holes in which they are
placed in the stiles or tightly fitted therein so
as not to turn with the tenons *c*. They may
be used in connection with any ordinary slat-
tenon; but we prefer metallic tenons to wooden
ones in order to lessen the wear from friction.

The series of slats *a* is operated by rod *d*,
hinged to each slat in the ordinary way, and
therefore it is not necessary that rubber tubes
c should be applied to both ends of the slats
nor to all the slats for the purpose of holding
them in any position to which they may be
turned; but it is desirable to apply the rub-

ber tubes at both ends of each slat to prevent
the slats becoming loose in the stiles and rat-
tling in the wind, and also to prevent paint, 40
varnish, and other obstructing substances from
having access to the tenon and its bearing.

When window-blinds are constructed in the
ordinary way without an elastic bearing tightly
fitting the slat-tenons, unless very great care 45
is taken in painting and varnishing them the
paint and varnish will enter between the tenon
and its bearing, and when dry will stick them
together so firmly that the slats cannot be
turned by any ordinary means. 50

In Fig. 1 rod *d* is shown as lifted and the
slats *a* thereby closed. The rod is held in that
position by sliding stop *n*. We prefer to form
it with outwardly-bent ends, the end under
the rod projecting far enough to prevent rod 55
d from being forced down to open the slats.
The other end of stop *n* may be grasped to
slide it backward and forward. In the draw-
ings it is shown as connected by staples *o* to
a plate, *v*, attached to the lower part of the 60
window-frame, but the plate may be dispensed
with and the stop directly connected with the
window-frame.

We claim as our invention—

A window-blind slat formed with a tenon, 65
in combination with a stile formed with a hole
provided with a rubber tube to receive said
tenon, substantially as described.

JOSEPH W. BRAINARD.
ALANSON D. SWAN.

Witnesses:

F. E. POISTER,
GEO. O. RICE.