

J. DYER & G. H. LEONARD.
SCREEN.

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1,065,304.

Patented June 17, 1913.

Fig. 1.

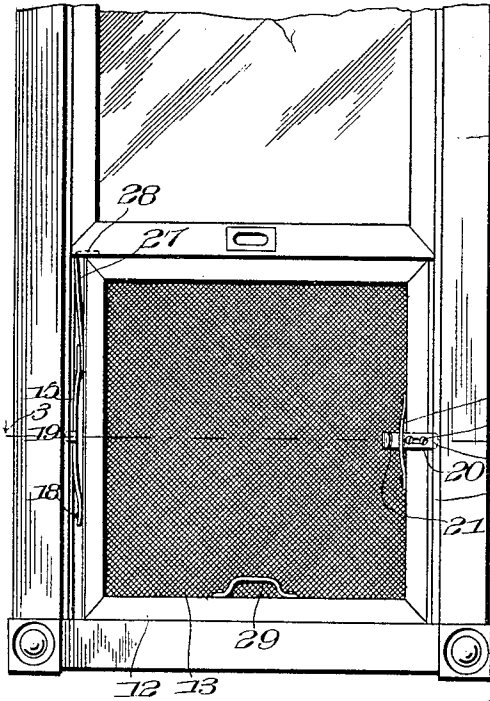


Fig. 2.

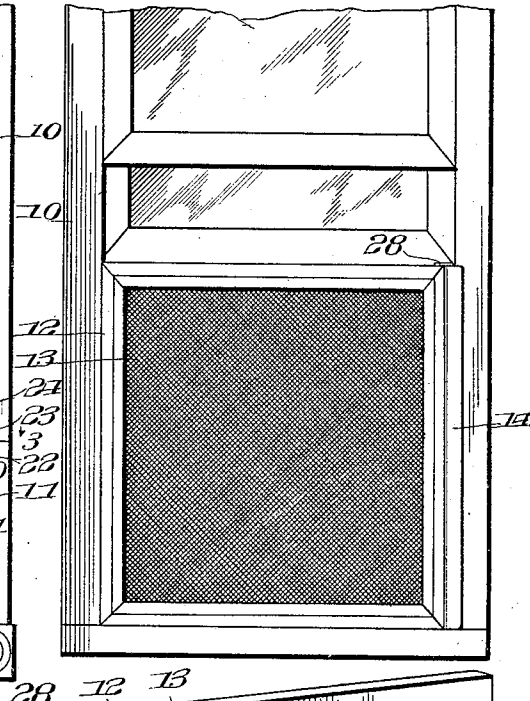


Fig. 3.

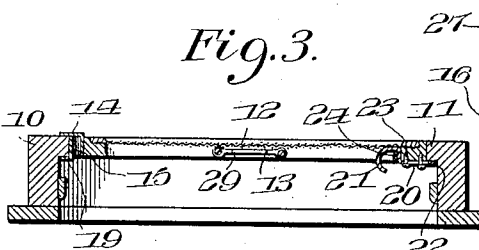
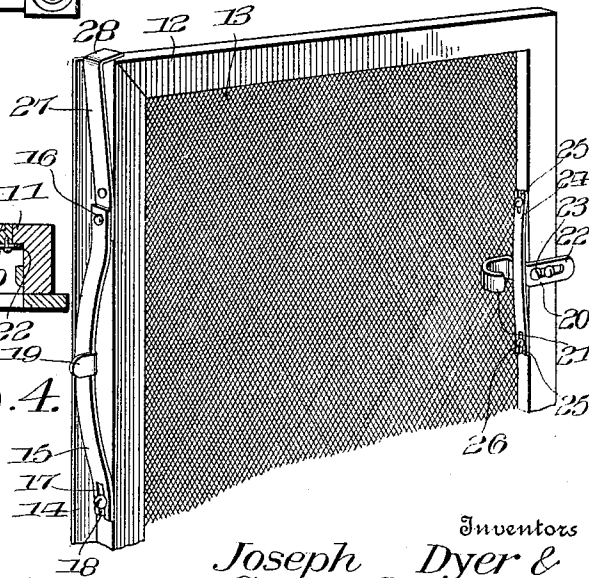


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

JOSEPH DYER AND GEORGE H. LEONARD, OF FAIRFIELD, MAINE, ASSIGNORS TO
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RATION OF MAINE.

SCREEN.

1,065,304.

Specification of Letters Patent.

Patented June 17, 1913.

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To all whom it may concern:

Be it known that we, JOSEPH DYER and
GEORGE H. LEONARD, citizens of the United
States, residing at Fairfield, in the county of
Somerset and State of Maine, have invented
new and useful Improvements in Screens, of
which the following is a specification.

The invention relates to window screens
and has for an object to provide a removable
screen for use on window casings and the
like.

The invention embodies, among other fea-
tures, a frame having the usual screen wire
secured thereto and arranged to slide on
the usual strips of a window casing, spring-
like means being employed for retaining the
frame on the casing to prevent rattling
thereof, with means for locking the frame
on the casing without disturbing the sliding
movement of the frame, the said frame be-
ing readily removable from engagement
with the casing and as easily engaged there-
with.

In the further disclosure of the invention
reference is to be had to the accompanying
drawings, constituting a part of this speci-
fication, in which similar characters of refer-
ence denote corresponding parts in all the
views, and in which—

Figure 1 is a front elevation of a window
casing showing our device applied thereto;
Fig. 2 is a rear elevation of a window casing
showing our device applied thereto; Fig. 3
is a horizontal sectional view taken on the
line 3—3 in Fig. 1; and Fig. 4 is a frag-
mentary perspective view of the frame.

Referring more particularly to the views,
we disclose a window casing 10 having the
usual vertical strips 11 thereon for retain-
ing the ordinary window sashes in sliding
engagement with the window casing.

A rectangular screen frame 12 is provided
with the usual screen wire 13 mounted on
the frame and the said frame has a guide
plate 14 projecting beyond one side of the
same to extend across the front face of one
of the strips 11, the mentioned guide plate
being arranged to lie in a plane with the
face of the frame 12 so that when the frame
is mounted on the window casing 10 the
same will be interposed between the strips
11 as shown. In order to prevent any rat-
tling of the frame 12 when the same is
mounted on the window casing and to aid in
sliding the frame vertically on the strips 11

of the window casing, a leaf spring 15 has
an end thereof rigidly secured to the frame
12 by a pin 16, the free end of the said
spring being provided with a longitudinally
extending slot 17 through which extends a
pin 18 secured to the frame 12, with the free
or slotted end of the spring 15 slidable on
the frame 12, the medial portion of the
spring being normally spaced from the
frame and engaging a side of the strip 11
having the guide plate 14 projecting there-
over. A guide lug 19 projects laterally
from the spring 15 across the inner side of
the strip 11, engaged by the spring 15, thus
retaining one side of the frame in slidable
engagement with the mentioned strip so
that the frame can be slid vertically on the
window casing.

In order to retain the other side of the
frame in slidable engagement with the
window casing, a slotted locking member 20,
provided with a handle 21, is mounted to
slide on the inner side of the frame 12 with
an end 22 of the locking member projecting
across the other strip 11 of the window cas-
ing, pins 23 being passed through the slots
of the locking member 20 in order to retain
the same in engagement with the frame 12
and also permit a sliding movement of the
locking member, a leaf spring 24, provided
with slots 25 in the ends thereof, being
mounted on the frame 12 with pins 26 pass-
ing through the slots 25 and the medial por-
tion of the spring 24 engaging the locking
member 20 to normally retain the same in
locked position. It will now be seen that
when the frame 12 is mounted on the
window casing 10, the guide lug 19 together
with the guide plate 14, will retain one side
of the frame in slidable engagement with
one of the strips of the window casing and
the end 22 of the locking member 20 will re-
tain the other side of the frame 12 in slid-
able engagement with the other strip of the
window casing, the locking member 20 being
also adapted to prevent the accidental re-
moval of the frame 12 from slidable engage-
ment with the strips 11 of the window casing
10, while at the same time the frame can be
readily moved vertically on the window cas-
ing, and the leaf spring 15, engaging a face
of one of the strips 11, will hold a face of the
frame 12 against the face of the other strip,
thus preventing any rattling of the frame on
the window casing. In order to further se-

cure the frame 12 on the window casing in the manner mentioned, an auxiliary leaf spring 27 is rigidly secured to the frame 12 by the same pin 16 that connects the leaf spring 15 to the frame, the mentioned leaf spring 27 being adapted to project upwardly and provided at the upper end thereof with a laterally extending portion 28 projecting over the upper face or edge of the frame 12 when the frame is in position on the window casing, the leaf spring 27 at the point of formation of the laterally extending portion 28 being adapted to be normally spaced from the frame 12 and abut against one of the strips 11, thus exerting sufficient pressure on the upper end of the frame so that the side of the frame upon which the locking member 20 is mounted will be held against a face of one of the strips to prevent any undue displacement of the frame 10 on the window casing. The usual handle 29 is mounted on the frame 12 in order to facilitate the operation of sliding the frame on the window casing and from the foregoing description it will be seen that by simply sliding the locking member 20 against the action of the spring 24, the portion of the frame having the locking member thereon can be moved outwardly from engagement with one of the strips 11 and the opposite side or portion of the frame can then be moved away from the window casing, thus removing the leaf spring 15 and guide lug 19 from engagement with the other strip 11 and resulting in the entire removal of the screen from the window casing, while at the same time, when the frame is moved on the window casing, the springs 15, 27, together with the guide lug 19 and locking member 20, will retain the frame 12 in slidable engagement with the window casing so that the frame can be readily moved upwardly or downwardly on the strip 11 thereof, the guide plate 14 being provided to prevent the removal of the side of the frame 12 opposite to the side of the frame having the locking member 20 thereon.

Having thus described our invention, we claim:

1. In a screen, the combination with a frame, of a leaf spring having one end thereof secured to the frame and the other end thereof slidable on the frame with the medial portion of the spring adapted to engage one of the strips of a window casing, a guide lug projecting from the spring to engage the said strip, an auxiliary spring secured to the frame and provided with a laterally extending portion projecting around the upper end of the frame with the medial portion of the auxiliary spring abutting against the said strip, a guide plate secured to the frame and projecting from one side thereof to extend across a portion of the window casing, and a locking member slidable on the said frame

to engage an opposite strip of the said window casing.

2. In a screen, the combination with a frame, of a leaf spring having one end thereof secured to the frame and the other end thereof slidable on the frame with the medial portion of the spring adapted to engage one of the strips of a window casing, a guide lug projecting from the spring to engage the said strip, an auxiliary leaf spring secured to the frame and provided with a laterally extending portion projecting around the upper end of the frame with the medial portion of the auxiliary spring abutting against the said strip, a guide plate secured to the frame and projecting from one side thereof to extend across a portion of the window casing, a slotted locking member, pins extending through the slot of the locking member to slidably connect the same with the said frame with an end of the locking member projecting over an opposite strip of the said window casing, a handle for the locking member, and a spring on the said frame and engaging the said locking member to normally retain the same in locked position and in engagement with the said opposite strip.

3. A screen comprising a frame having screen wire thereon, a leaf spring having one end thereof rigid on the frame and the other end thereof slidable on the frame with the medial portion of the leaf spring normally spaced from the frame, a guide lug projecting from the said spring, a guide plate projecting beyond one side of the said frame, and a spring-engaged locking member mounted on the other side of the said frame for locking the said frame on a window casing.

4. A screen comprising a frame having screen wire thereon, a leaf spring having one end thereof rigid on the frame and the other end thereof slidable on the frame with the medial portion of the leaf spring normally spaced from the frame, a guide lug projecting from the said spring, a guide plate projecting beyond one side of the said frame, a spring-engaged locking member on the other side of the said frame for locking the said frame on a window casing, and an auxiliary spring having one end thereof rigidly secured to the frame and the medial portion thereof normally spaced from the frame to engage the window casing.

5. In a screen, the combination with a rectangular frame for slidable engagement with a window casing, of a guide plate projecting from one side of the frame, a leaf spring mounted on the frame and having a medial portion thereof normally spaced therefrom, the said leaf spring being arranged adjacent the said guide plate, a lug on the said leaf spring and spaced from the guide plate, and a spring-engaged locking member mounted

on the other side of the said frame and adapted to engage the window casing.

6. In a screen, the combination with a rectangular frame for slidable engagement
5 with a window casing, of a guide plate projecting from one side of the frame, a leaf spring mounted on the frame and having a medial portion thereof normally spaced therefrom, the said leaf spring being ar-
10 ranged adjacent the said guide plate, a lug on the said leaf spring and spaced from the guide plate, a spring-engaged locking member mounted on the other side of the said

frame and adapted to engage the window casing, and an auxiliary leaf spring secured 15 to the frame and having a medial portion thereof adapted for engagement with the window casing when the said frame is mounted to slide thereon.

In testimony whereof we affix our signa- 20 tures in presence of two witnesses.

JOSEPH DYER.

GEORGE H. LEONARD.

Witnesses:

G. F. SPEARIN,

GEO. G. WEEKS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."