

E. S. BUCKNAM.

CAR.

APPLICATION FILED AUG. 12, 1908.

912,983.

Patented Feb. 16, 1909.

Fig. 1.

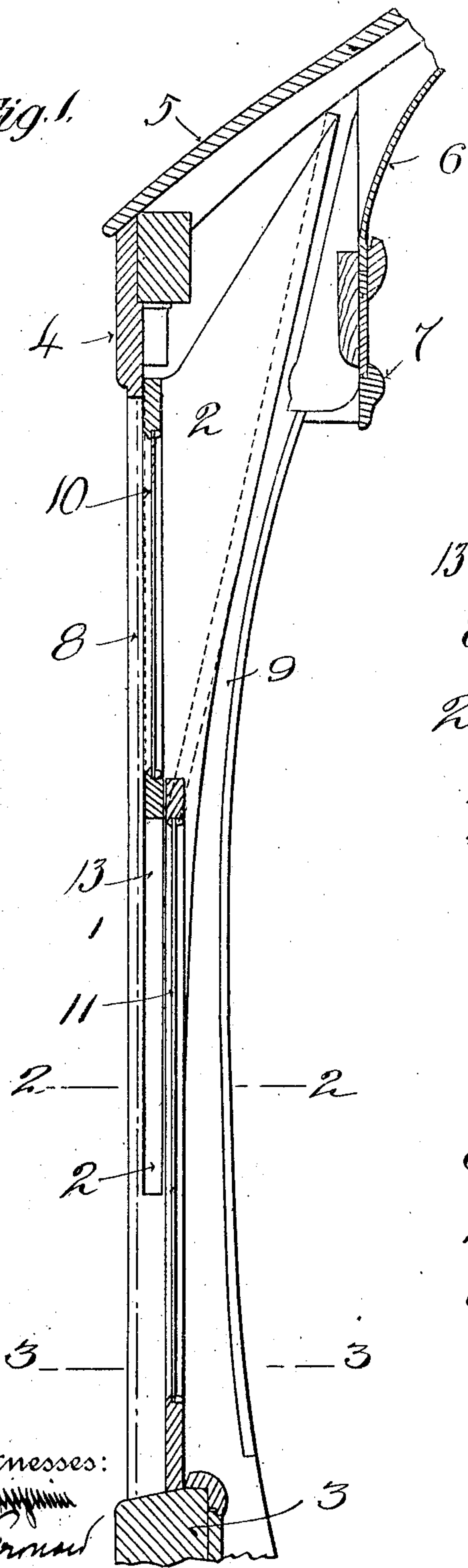


Fig. 2.

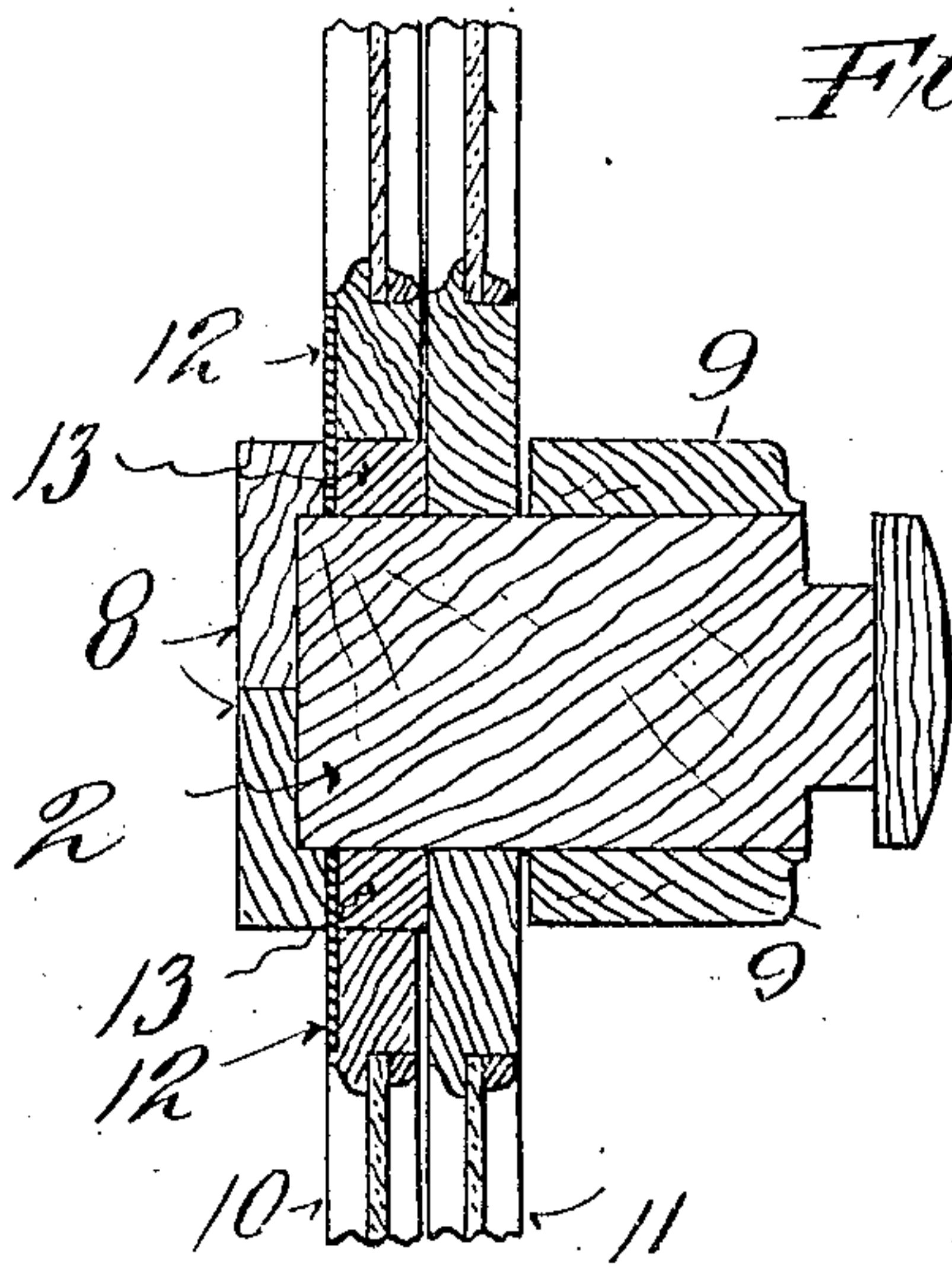
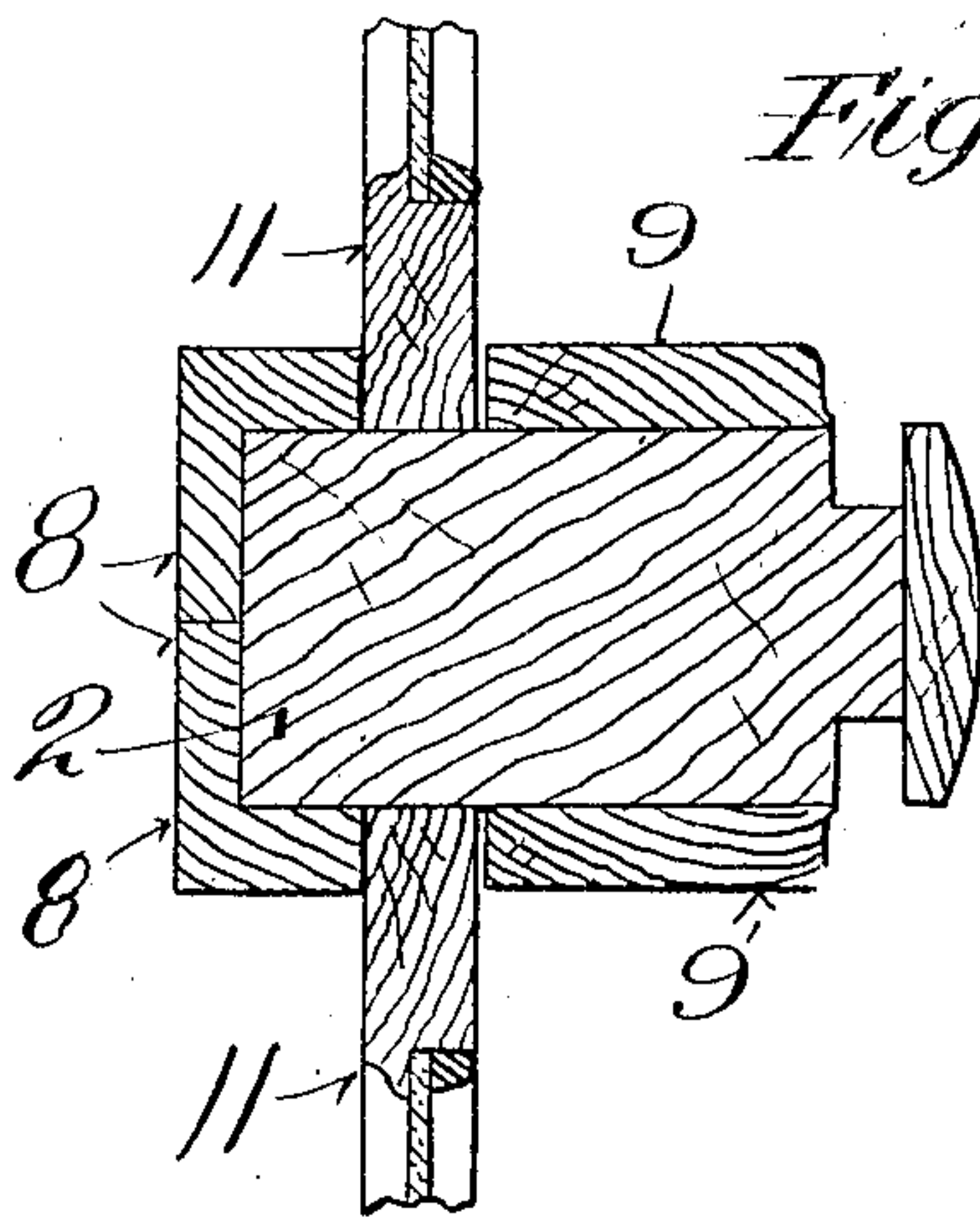


Fig. 3.



Witnesses:

[Signature]
[Signature]

Inventor

Ezra S. Bucknam

By his Attorney

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UNITED STATES PATENT OFFICE.

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CAR.

No. 912,983.

Specification of Letters Patent.

Patented Feb. 16, 1909.

Application filed August 12, 1908. Serial No. 448,087.

To all whom it may concern:

Be it known that I, EZRA S. BUCKNAM, a citizen of the United States, and a resident of the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Cars, of which the following is a specification.

The object of my invention is to provide a suitable window construction for cars which are necessarily narrow so that the sashes cannot be entirely raised into roof pockets between the head-lining and roof, and also to provide a suitable construction for ventilating purposes so that the windows may be opened with a maximum degree of comfort to the passengers. These objects are accomplished by my invention, as will appear below.

For a more particular description of my invention, reference is to be had to the accompanying drawings, forming a part hereof, in which:

Figure 1 is a sectional view showing a car window provided with my improvements. Figs. 2 and 3 are sectional views taken on the lines 2—2 and 3—3 respectively of Fig. 1, looking in the direction of the arrows.

Throughout the various views of the drawings, similar reference characters designate similar parts.

My improved car 1 is provided with stanchions 2, connected by the usual window sills 3, letter board 4, roof 5, head-lining 6, curtain molding 7, and other parts not shown, all of which may be of the conventional form and suitable for narrow cars, or even for wide cars, if desired.

Each stanchion is provided with an outer parting strip 8 and an inner parting strip 9 which define the slide ways between which the upper sash 10 and lower sash 11 are adapted to slide. The upper edge of the sash 10 is provided with any suitable bolt, not shown, by which it may be held in any desired position. This sash 10 is also provided with a metal strip 12, which projects from the outer surface of the sash 10 and in the plane thereof to the plane of the outer edge of the lower sash 11, as shown in Fig. 2. Except for this metal strip 12 the sash 10 is narrower than the sash 11 by the thickness of the parting strips 8 and 9. Strips 13 are attached to stan-

chions 2 between the strips 8 and 9 which are substantially of the thickness of the parting strips 8 and 9, and these strips 13 extend to the metal strip 12 and are separated by the thickness of this strip 12 from the parting strip 8 and by the thickness of the sash 11 from the parting strip 9. This permits the upper sash to have a vertical movement only with its side edges rubbing against the exterior of the parting strips and its movement governed by the metal strips 12 and the grooves in which they slide. The lower sash may be moved independently of the upper sash and between the strips 13 and 9 and 8 and 9. When the lower sash 11 is raised to its uppermost position, it is slightly inclined from the vertical, as shown in dotted lines in Fig. 1.

It is obvious that both sashes are provided with the usual hardware necessary to hold them in the proper position, either when opened or closed. As such details are obvious, they are not shown. The window may be opened either by lowering the upper sash or raising the lower sash, either or both, as these sashes move independently of each other.

While I have shown and described one embodiment of my invention, it is obvious that it is not restricted thereto, but is broad enough to cover similar structures that come within the scope of the annexed claim.

I claim,

In a car, stanchions, an upper and lower sash adapted to slide between said stanchions, exterior and interior parting strips on said stanchions, intermediate parting strips on said stanchions, an upper sash provided with strips adapted to slide between said exterior and intermediate parting strips and against the exterior of said intermediate strips, and a lower sash adapted to slide between said parting strips independently of said upper sash.

Signed at the city and county of Philadelphia, State of Pennsylvania, this 10 day of August, 1908.

EZRA S. BUCKNAM.

Witnesses:

HENRY C. ESLING,
H. F. MCKILLIP.