

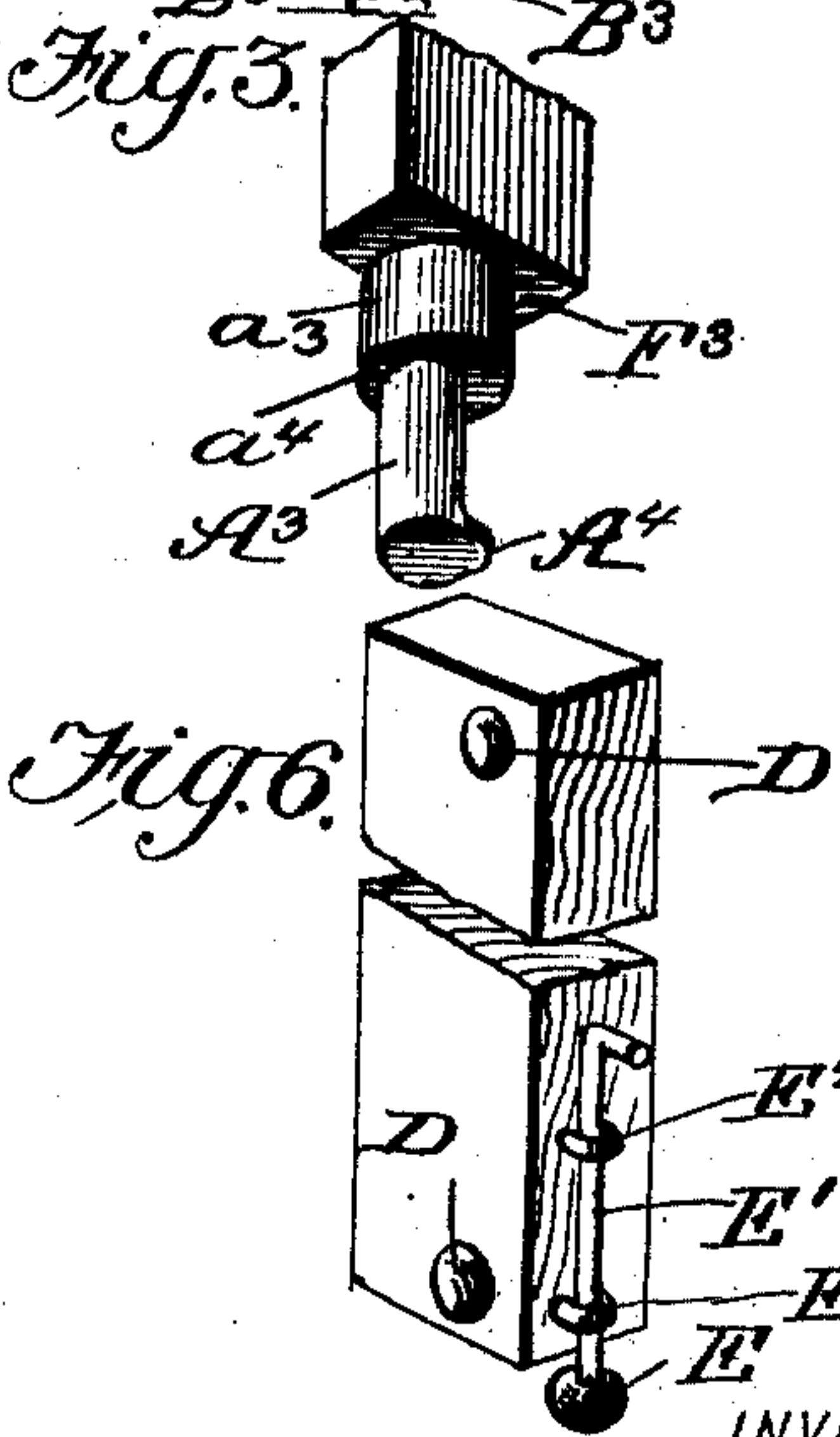
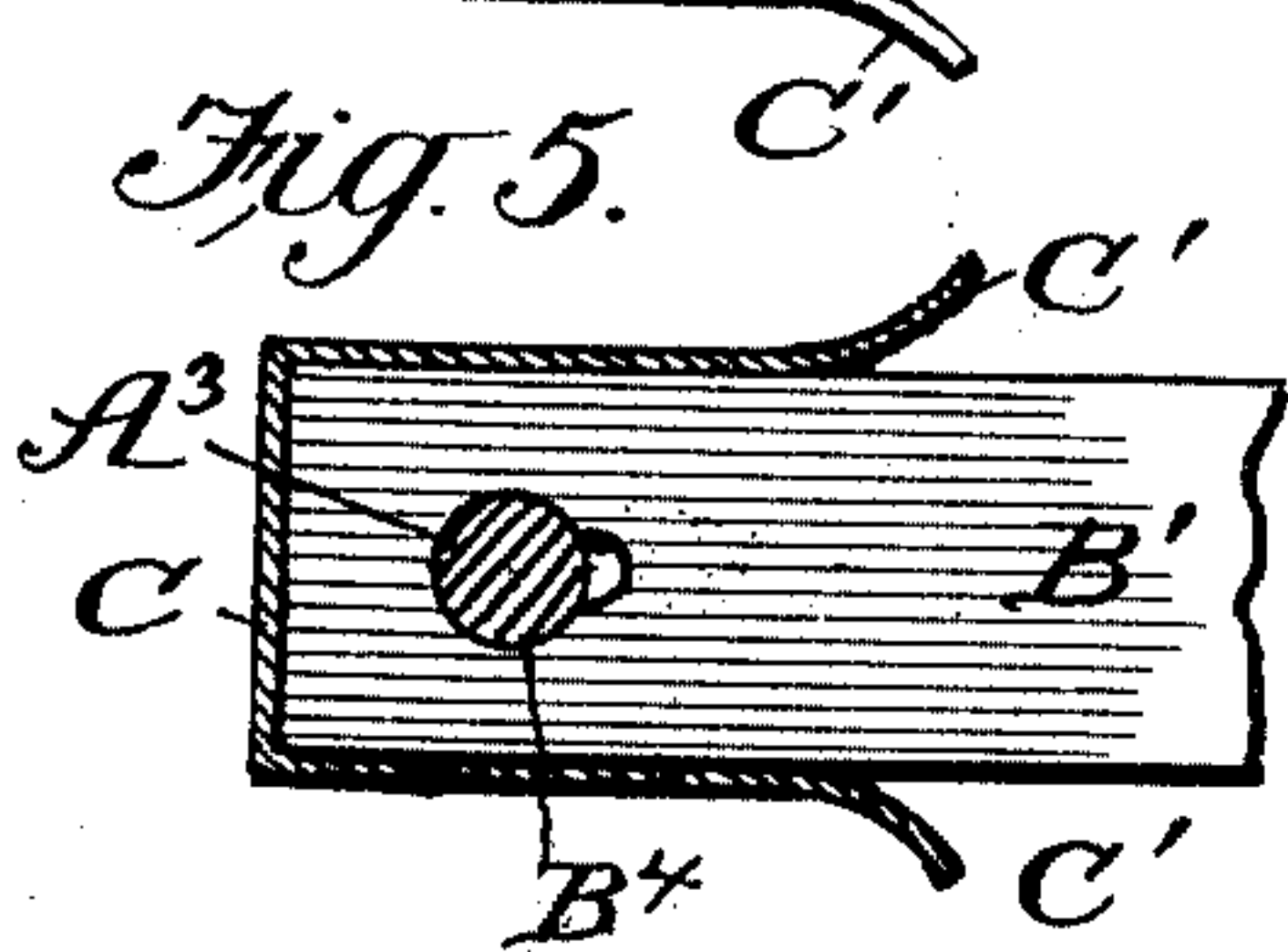
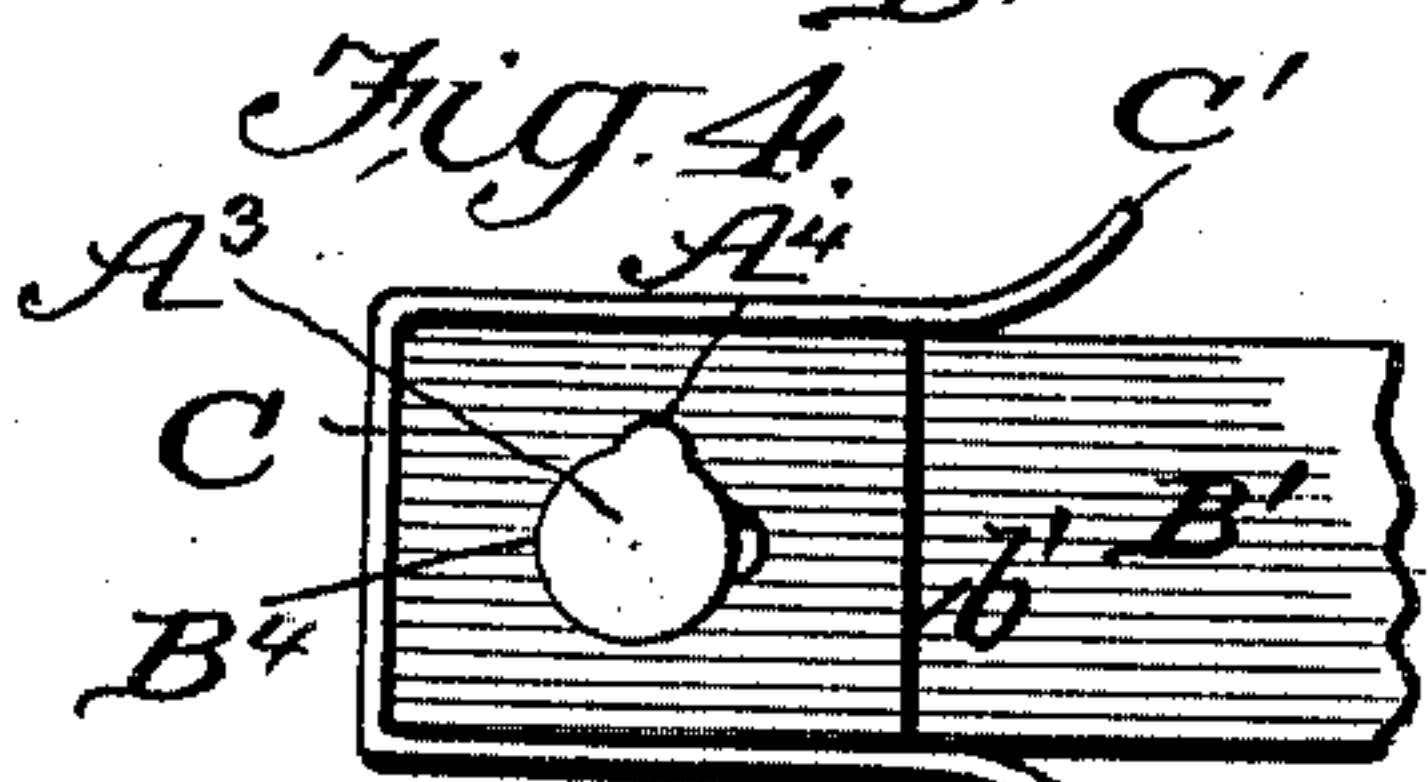
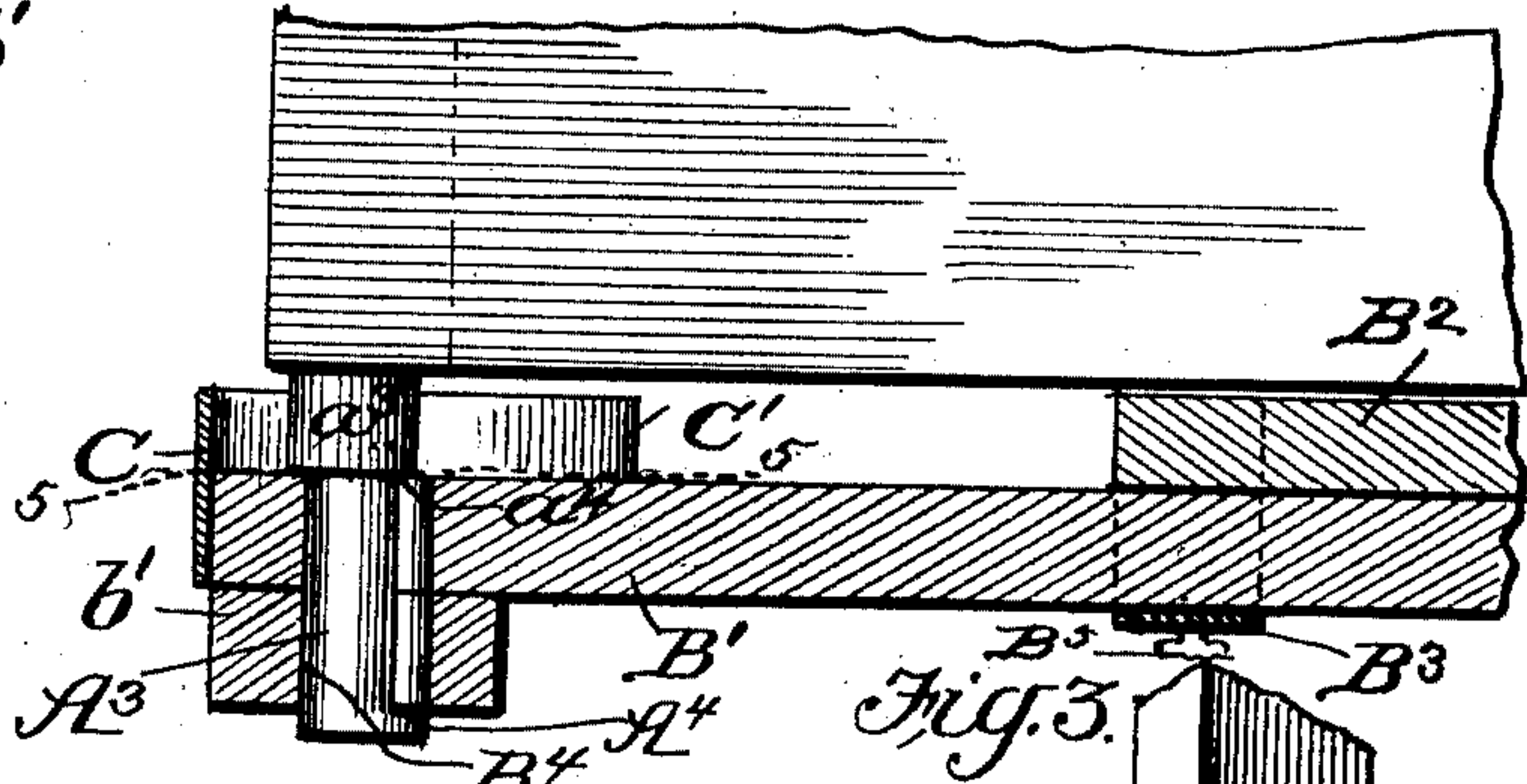
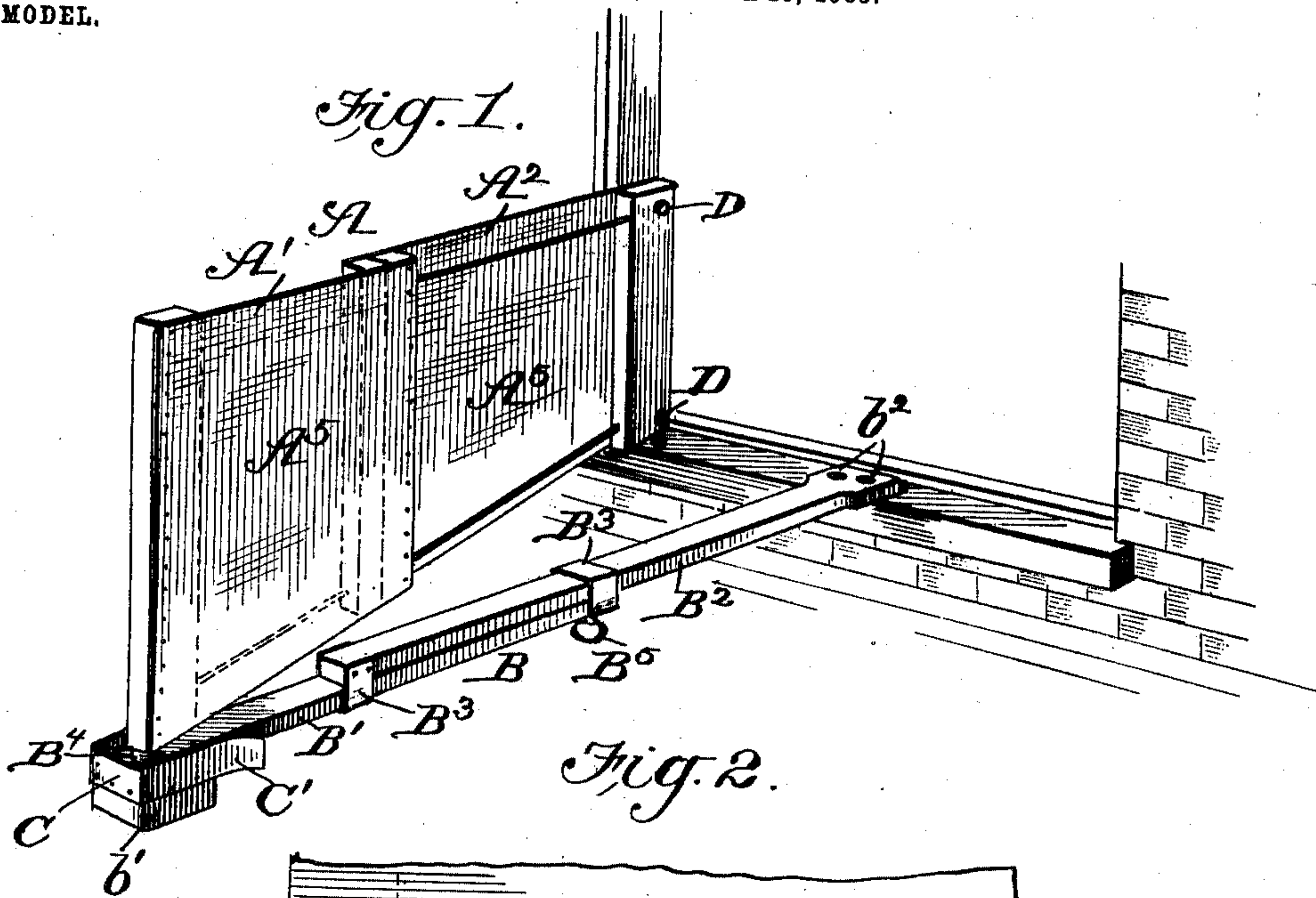
No. 759,940.

PATENTED MAY 17, 1904.

F. M. THOMPSON.
VENTILATOR.

APPLICATION FILED JUNE 10, 1903.

NO MODEL.



WITNESSES:

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UNITED STATES PATENT OFFICE.

FRANK M. THOMPSON, OF EAST LIVERPOOL, OHIO, ASSIGNOR OF TWO-THIRDS TO GEORGE A. MOON AND EDDIE R. SMITH, OF EAST LIVERPOOL, OHIO.

VENTILATOR.

SPECIFICATION forming part of Letters Patent No. 759,940, dated May 17, 1904.

Application filed June 10, 1903. Serial No. 160,886. (No model.)

To all whom it may concern:

Be it known that I, FRANK M. THOMPSON, a citizen of the United States, and a resident of East Liverpool, in the county of Columbiana and State of Ohio, have made certain new and useful Improvements in Ventilators, of which the following is a specification.

My invention is an improvement in ventilators, having for an object to provide means whereby to deflect the wind into a room, so that when the wind is blowing in the direction at right angles to the window-opening it may be deflected into the room, and the invention will be found especially desirable where windows open into passages between two structures; and the invention consists in certain novel constructions and combinations of parts, as will be hereinafter described and claimed.

In the drawings, Figure 1 is a perspective view of a ventilator embodying my invention. Fig. 2 is a detail sectional view illustrating the connection between the outer end of the deflector and the support. Fig. 3 is a detail perspective view of the lower portion of the outer end of the deflector. Fig. 4 is a detail bottom plan view of the outer end of the support. Fig. 5 is a detail section taken on the line 5 5 of Fig. 2 of the outer end of the support, and Fig. 6 is a detail perspective view of the lower portion of the inner end of the deflector.

In carrying out my invention I provide a deflector A for directing the wind into the room and a support B, extending outwardly from the window and adapted at its outer end to form a pivotal support for the outer end of the deflector A. The deflector A is preferably made of the sections A' and A², sliding upon each other, so they can be adjusted as desired, and the outer section A' is provided at its outer end with a depending tenon A³, whose lower end has a lateral stud A⁴, the tenon and its stud being adapted to operate in a keyhole-slot B⁴ at the outer end of the outer section B' of the arm B, said arm being formed in sections B' and B², sliding upon each other, as shown. The tenon A³ is enlarged near its

upper end at a³, forming the downwardly-facing shoulder a⁴, which rests upon the section B' of the arm B, the enlarged portion a³ of the tenon operating in the guide, presently described, provided on the section B' of the arm B. By the described construction the deflector A is pivoted vertically at its outer end to the arm B, so it can swing from the position shown in Fig. 1, where it abuts one side of the window, to an opposite position, in which it will abut the other side of the window. At the same time the stud A⁴ on the lower end of the tenon A³ operates to prevent the accidental withdrawal of the tenon A³ from the arm B', except when the deflector and arm are in alinement, which is not likely to occur in the practical use of the invention. The guide C on the outer end of the arm B' is flared at C' to guide the outer end of the deflector A into the position in which its tenon may be inserted in the opening B⁴ in the section B' in applying the deflector to its supporting-arm.

As shown and preferred, the outer end of the section B' has a dropped portion b', increasing the bearing for the tenon A³. It will also be noticed that the enlarged portion a³ of the tenon holds the body of the outer end post of the section A' sufficiently high to permit the deflector to swing over the opposite sides of the guide C in adjusting from one position to the other in the use of the invention. The sections B' and B² are provided with boxings B³, whereby they are telescoped and can slide along each other to adjust the device out to any extent, and a clamping-screw B⁵ may be provided for securing the sections B' and B² in any desired adjustment. In practice the arm B may be secured by screwing or otherwise fastening the inner end of the section B² to the window-sill, as indicated at b² in Fig. 1.

The deflector A has its sections A' and A² slidable upon each other and supplied with coverings A⁵, which may be of sail-cloth or other suitable textile or other material.

In the use of my invention the deflector will adjust automatically, according to the direction of the wind, and will bear at its inner

end against one side or the other of the window-frame, projecting as it does at such end slightly within the window, as shown in Fig.

1. I provide such inner end of the deflector
5 on its opposite sides with buffers or cushions at D, of rubber or other soft material, to ease the blow when the deflector adjusts to bear against the window-casing, and I also provide on the under side of the deflector at its inner
10 end a soft or yielding foot E to bear upon the window-sill and operate as a brake to prevent any undue vibration of the deflector when it is adjusted to bear against one or the other side of the window-frame. This brake-cush-
15 ion E is movable vertically, being in the construction shown carried on a rod E', movable vertically in guides E² on the inner end bar of the deflector, as shown in the drawings. This brake operates to steady the deflector against
20 movement to one side or the other of the window, but does not prevent the automatic shifting of said deflector to its different positions, as will be understood from the drawings.

By the adjustable feature of both the sup-
25 porting-arm and the deflector it will be noticed the ventilator can be readily adjusted out to different distances to vary the extent to which it may project from the window and the amount of wind which will consequently
30 be gathered thereby.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The improvement in ventilators herein
35 described comprising the support composed of inner and outer sections slidable one upon the other, the outer section being provided near its outer end with the keyhole-slot and on its upper side with a guide having flared
40 portions to direct the outer end of the deflector, and the deflector composed of inner and outer sections slidable upon each other, the outer section being provided at its outer end with a depending tenon having a spur at
45 its lower end and adapted to fit in the opening in the outer supporting-section, said tenon having at its upper end an enlarged portion forming a shoulder to rest upon said supporting-section and holding the main portion of
50 the deflector above the guide on the support,

and cushions on opposite sides of the deflector at its inner end, and the yielding brake at the under side of such deflector at its inner end substantially as and for the purpose set forth.

2. A ventilator for use on windows com- 55
prising a longitudinally-adjustable support, and a longitudinally-adjustable deflector pivoted at its outer end to said support and arranged to shift at its inner end from side to side of the window substantially as set forth. 60

3. The combination with a deflector shift-
able at its inner end from side to side, of the cushioning-brake, an upright rod supporting said brake, and guides on the deflector in which said upright rod is movable vertically 65
substantially as set forth.

4. The combination in a ventilator with the support having an upright keyhole-slot, of the deflector provided at its outer end with a depending tenon operating in said slot and 70
having a spur to fit the wing thereof substantially as set forth.

5. A ventilator substantially as described comprising the support having at its outer end an opening for the tenon of the deflector 75
and the deflector having its tenon formed to pivot in said opening substantially as set forth.

6. The combination of the support having a pivot-opening and the deflector having a 80
tenon pivoting in said opening and means at the upper end of said tenon whereby the body of the deflector is elevated above the guide substantially as set forth.

7. The combination in a ventilator of a 85
support consisting of longitudinally-adjustable sections, and a deflector pivoted at its outer end to the outer one of said sections and shiftable at its inner end from side to side of the said window substantially as set forth. 90

8. A ventilator substantially as herein described comprising a deflector composed of sections adjustable longitudinally upon each other and a support to which the outer one of said sections is pivoted substantially as set 95
forth.

FRANK M. THOMPSON.

Witnesses:

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