

No. 702,586.

Patented June 17, 1902.

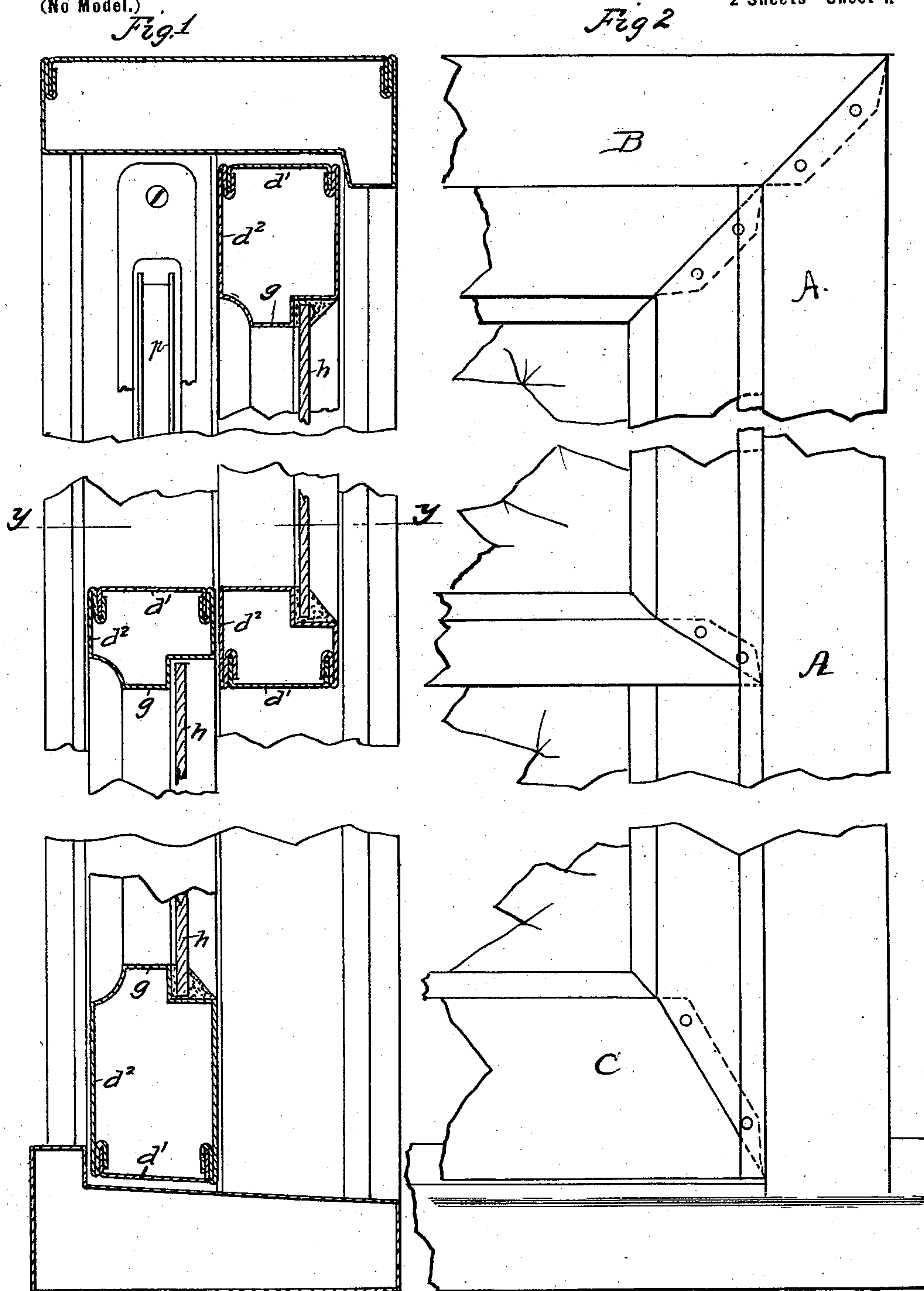
A. RASNER.

WINDOW FRAME AND SASH.

(Application filed Jan. 21, 1898. Renewed Apr. 30, 1902.)

(No Model.)

2 Sheets—Sheet 1.



Witnesses:
William J. Brower
C. Williams

Inventor,
Abraham Rasner
By
John H. Rooley, Jr.
attn

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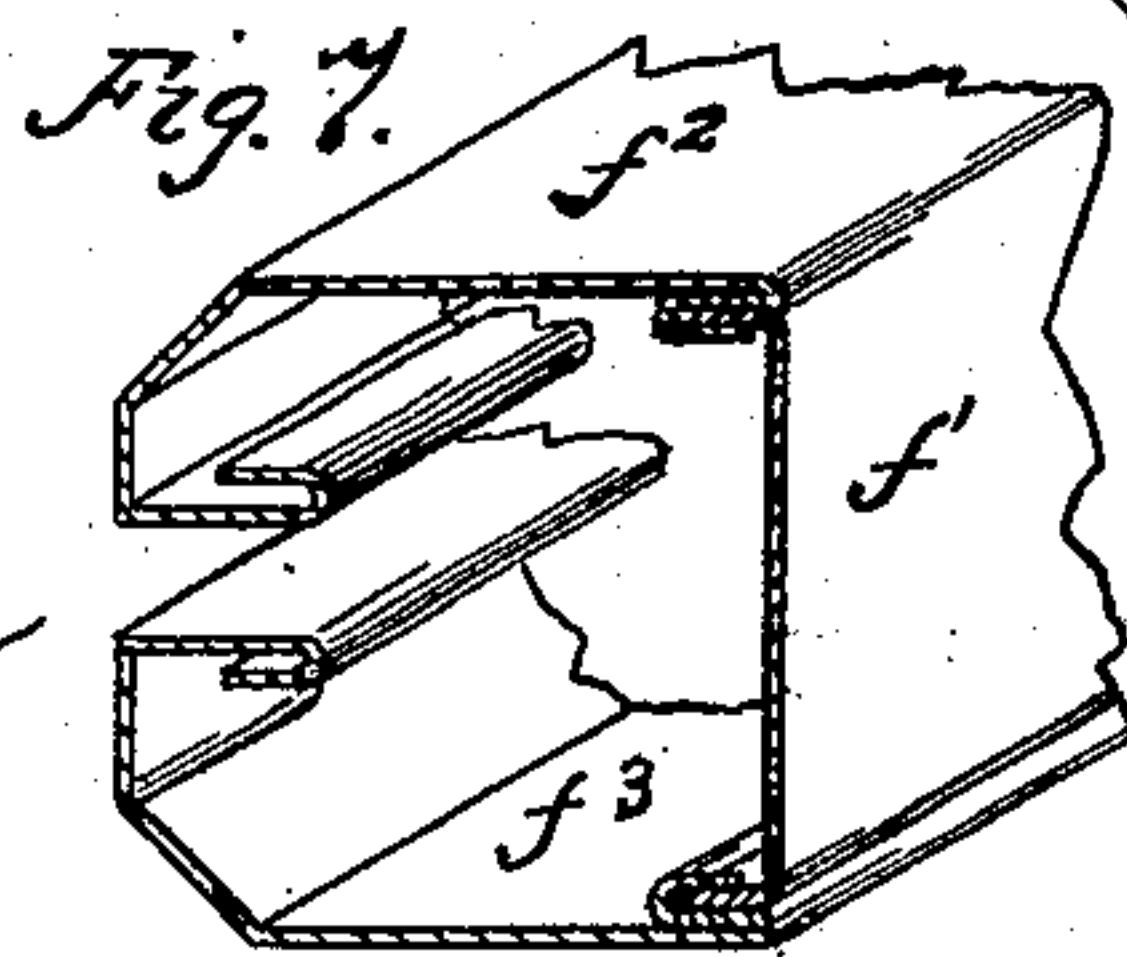
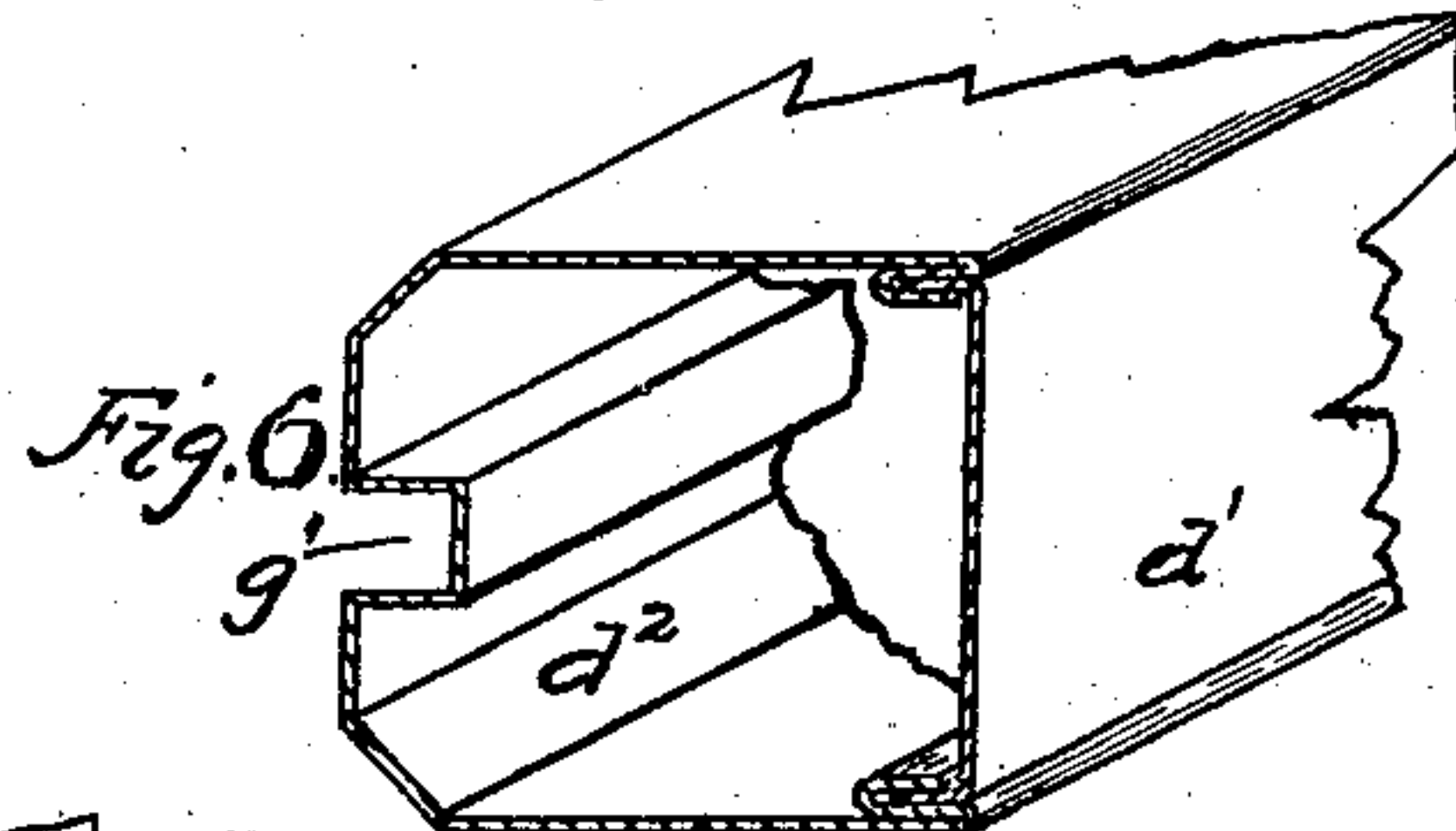
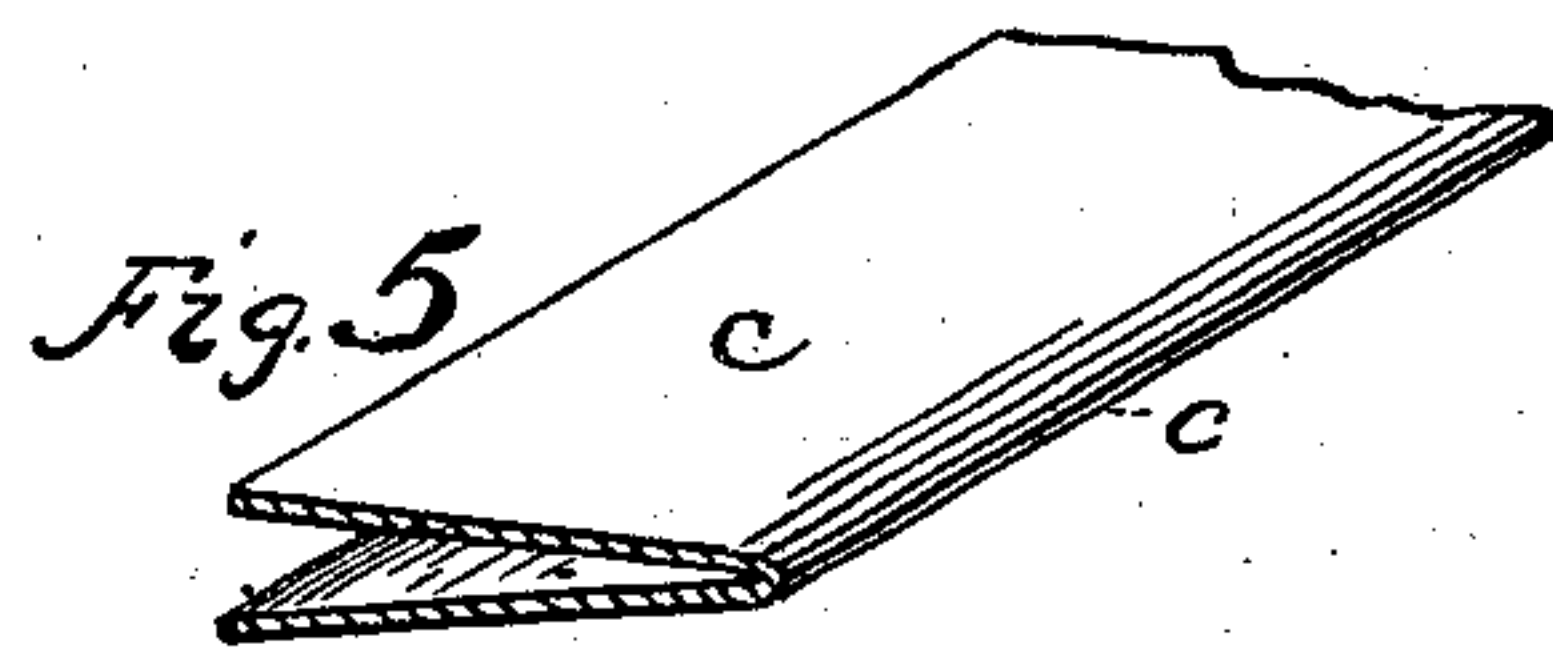
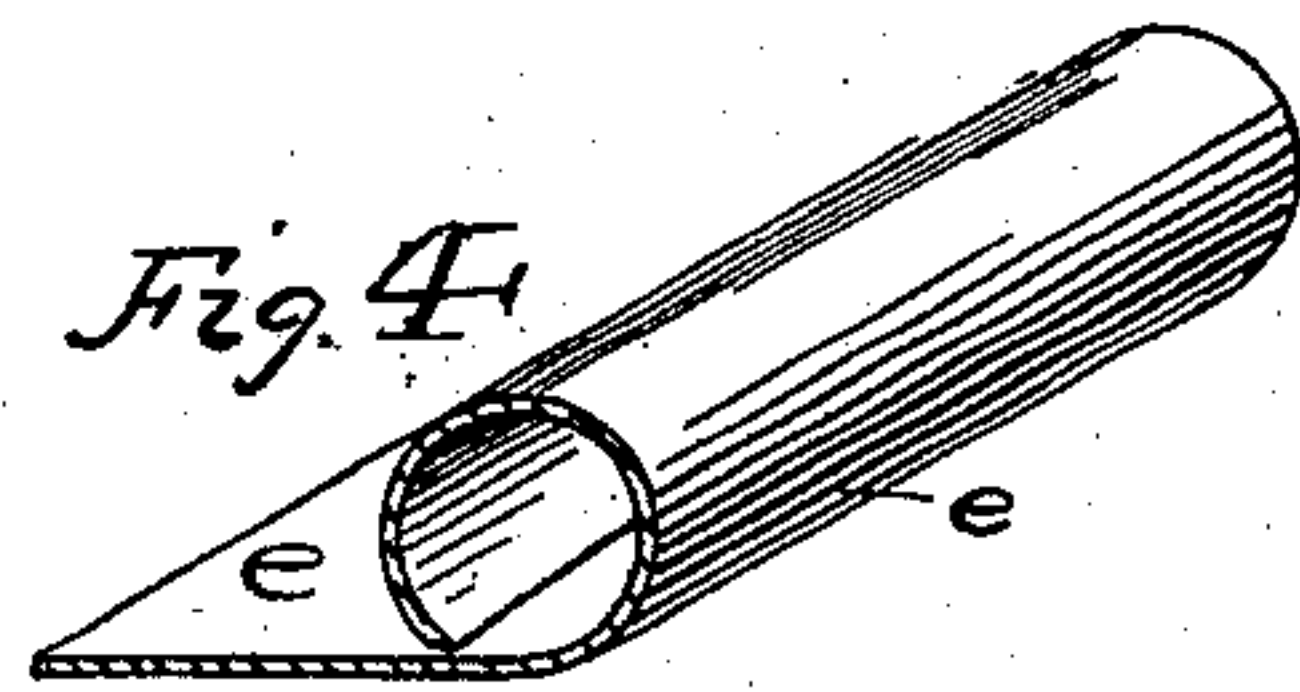
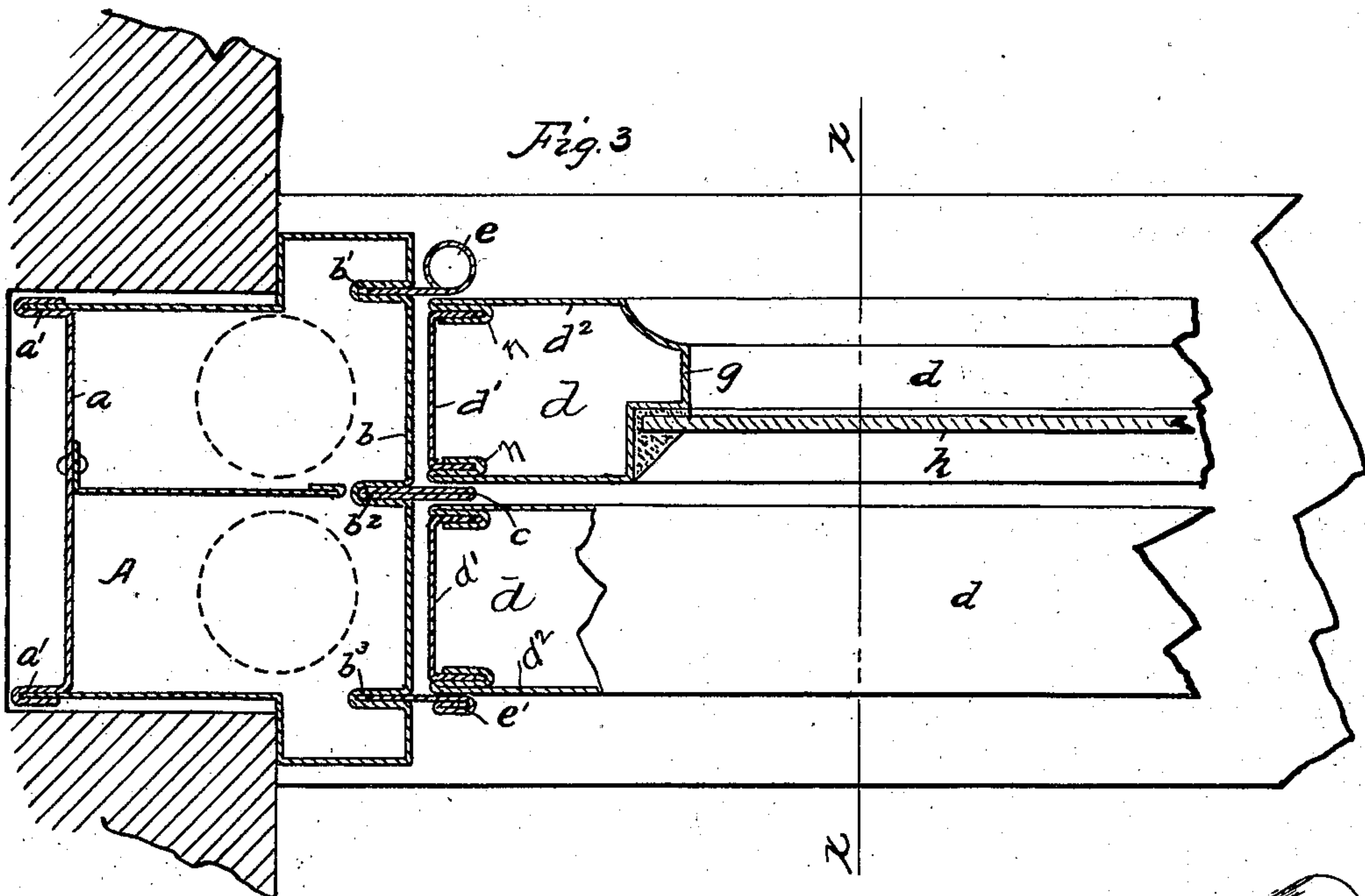
A. RASNER.

WINDOW FRAME AND SASH.

(Application filed Jan. 21, 1898. Renewed Apr. 30, 1902.)

(No Model.)

2 Sheets—Sheet 2.



Witnesses:
William J. Brown
C. Williams

Inventor:
Abraham Rasner
By John V. Poney
att'y

UNITED STATES PATENT OFFICE.

ABRAHAM RASNER, OF PITTSBURG, PENNSYLVANIA, ASSIGNOR TO RASNER & DINGER COMPANY, OF PITTSBURG, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA.

WINDOW FRAME AND SASH.

SPECIFICATION forming part of Letters Patent No. 702,586, dated June 17, 1902.

Application filed January 21, 1898. Renewed April 30, 1902. Serial No. 105,299. (No model.)

To all whom it may concern:

Be it known that I, ABRAHAM RASNER, a citizen of the United States, residing at Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Window Frames and Sashes, of which improvements the following is a specification, reference being had to the accompanying drawings, in which—

Figure 1 indicates a section of my improved window frame and sash, taken on the line xx of Fig. 3. Fig. 2 is a front elevation of the same. Fig. 3 is a sectional plan view of the same on line yy of Fig. 1. Fig. 4 is an enlarged perspective view of bead-strip. Fig. 5 is a sectional perspective view of parting-strip. Fig. 6 is a perspective view of modified form of sash, and Fig. 7 is a sectional perspective view of top rail of sash.

My invention relates to improvements in window frames and sashes, and more particularly to frames and sashes formed of light sheet metal; and it consists in the novel construction and arrangement of parts, herein after more specifically set forth, reference being had to the accompanying drawings, which form a part of this specification, in which like reference characters indicate like parts wherever they occur throughout the several views.

Referring to said drawings, A is the side of the frame, and B and C are the top and bottom, respectively, of the same, which are riveted or otherwise suitably secured together at their conjoined ends, as shown in the drawings. The sides of said frame are formed of two independent pieces or parts a and b , the ends of the part a being provided with U-shaped flanges a' for the reception of the inner ends of the part b , the outer face of which is provided with the grooves b' , b^2 , and b^3 , groove b^2 being formed in the center thereof longitudinally, and in which the parting-strip is secured, said parting-strip being, as shown in the drawings, Fig. 5, made of a plate or strip doubled together, the separable ends of the same being inserted in said groove b^2 in such wise that the tension of the same against the sides of the groove b^2 is sufficient to retain said strip therein, or the said parting-

strip may be formed of a single piece inserted in the groove b^2 similar to the bead and guide strips $e e'$. The advantage of inserting the parting and guide strips is that it forms an absolutely fireproof construction. The grooves b' and b^3 are formed in the face of said frame equidistant from the inner and outer ends, respectively, of said frame and are for the purpose of receiving the inner ends of the guide and bead strips $e e'$, which with the parting-strip c form the channels in which the sashes $d d'$ are retained in said frame. The side pieces of said sashes are, as shown in the drawings, Figs. 3 and 6, formed of two separate pieces d' and d^2 , the outer ends of d^2 having U-shaped flanges n to receive the bent ends of the part d' . The part d^2 is also provided with a shoulder g for the reception of the ends of the glass h , or said piece may be and preferably is provided with a groove g' , extending longitudinally of the same, as shown in Fig. 6, in which the glass may be inserted and securely fastened therein by putty or other suitable means. The top rail of said sash is formed of three separate pieces f' , f^2 , and f^3 which are conjoined, as shown in the drawings.

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

1. In a metallic frame and sash, the combination of a frame, comprising the top, bottom, and side pieces, the side pieces having grooves formed in the face thereof for the reception of the parting and bead strips, whereby guides are formed, the said parting-strip being formed of a strip of metal, the ends of which are brought together when inserted in the groove, the tension thereof maintaining the same therein, and metallic sashes, comprising the top, bottom, and sides, substantially as set forth.

2. In a metallic frame and sash, the combination of a frame, comprising the top, bottom, and side pieces, the side pieces having grooves formed in the face thereof for the reception of the parting and bead strips, whereby guides are formed, the said parting-strip being formed of bent metal, the ends or

edges of which are compressed in and inserted in the groove, the tension thereof maintaining the same therein, and metallic sashes, comprising the top, bottom, and sides having 5 grooves formed in the face of the same for the reception of the glass, substantially as set forth.

3. In a fireproof window, the combination, with the frame, having a channel formed 10 therein, of an expansible guide strip or stop seated in said channel, and a sash held in place by said strip or stop, substantially as set forth.

4. A window-frame, composed of sheet 15 metal, the sides of which are provided with vertically-disposed grooves, detachable beads, and detachable parting-strips mounted therein, substantially as set forth.

5. The combination, with a sheet-metal 20 window-frame, of sheet-metal sashes, the frame having detachable beads of sheet metal and detachable parting-strips, the frame being provided with grooves in which said beads and parting-strips are placed, sub- 25 stantially as set forth.

6. The combination, with a sheet-metal window-frame, of sheet-metal sashes, the

frame having detachable beads of sheet metal, and detachable parting-strips, the said parting-strips being strips of sheet metal 30 folded longitudinally, the frame being provided with grooves in which said beads and parting-strips are placed, substantially as set forth.

7. A metallic window-sash comprising the 35 parts d' and d^2 , the said part d^2 having U-shaped flanges adapted to receive the bent ends of the part d' , substantially as set forth.

8. The combination, with a sheet-metal 40 window-frame, of sheet-metal sashes, the frame having detachable guide-strips of sheet metal, said guide-strips being strips of metal folded longitudinally, the frame being provided with grooves in which said guide-strips are placed, substantially as described. 45

In testimony that I, ABRAHAM RASNER, claim the foregoing I have hereunto affixed my signature in the presence of two subscribing witnesses.

ABRAHAM RASNER. [L. S.]

Witnesses:

WILLIAM E. MINOR,
C. A. WILLIAMS.