

J. BAUM.  
SAFE.

APPLICATION FILED FEB. 27, 1906.

Patented Oct. 13, 1908

2 SHEETS—SHEET 1.

900,696.

Fig. 1.

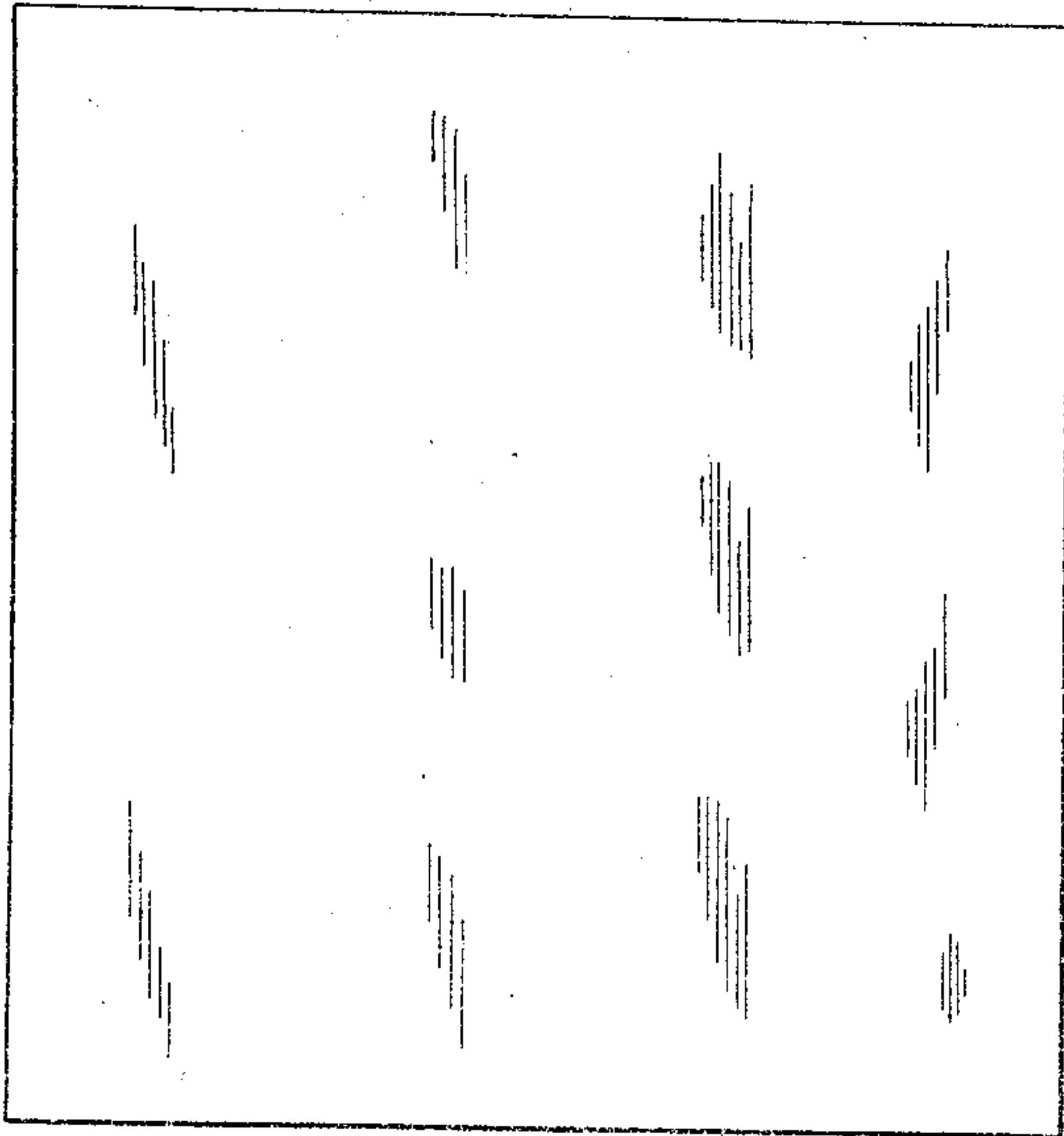


Fig. 2.

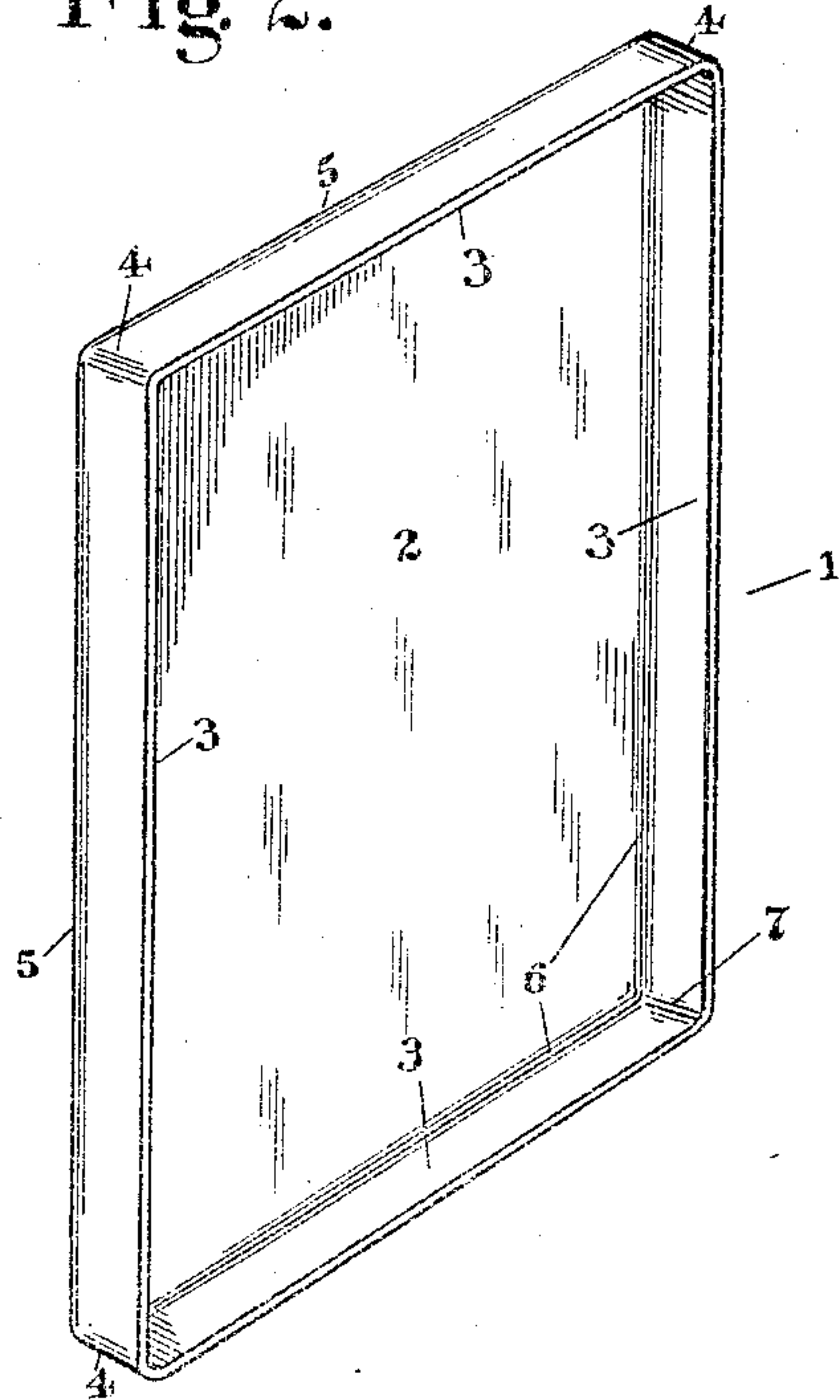


Fig. 3.

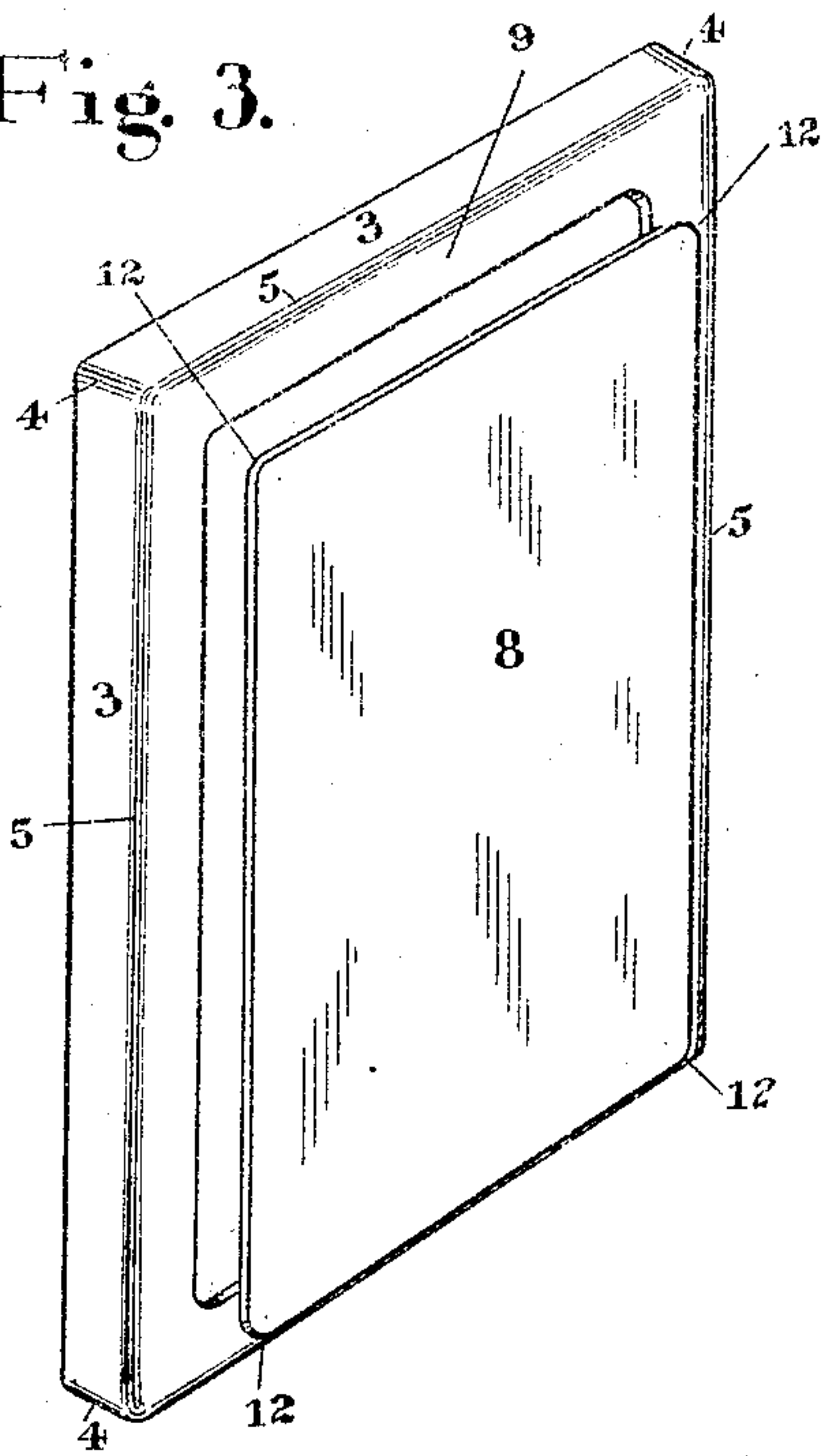
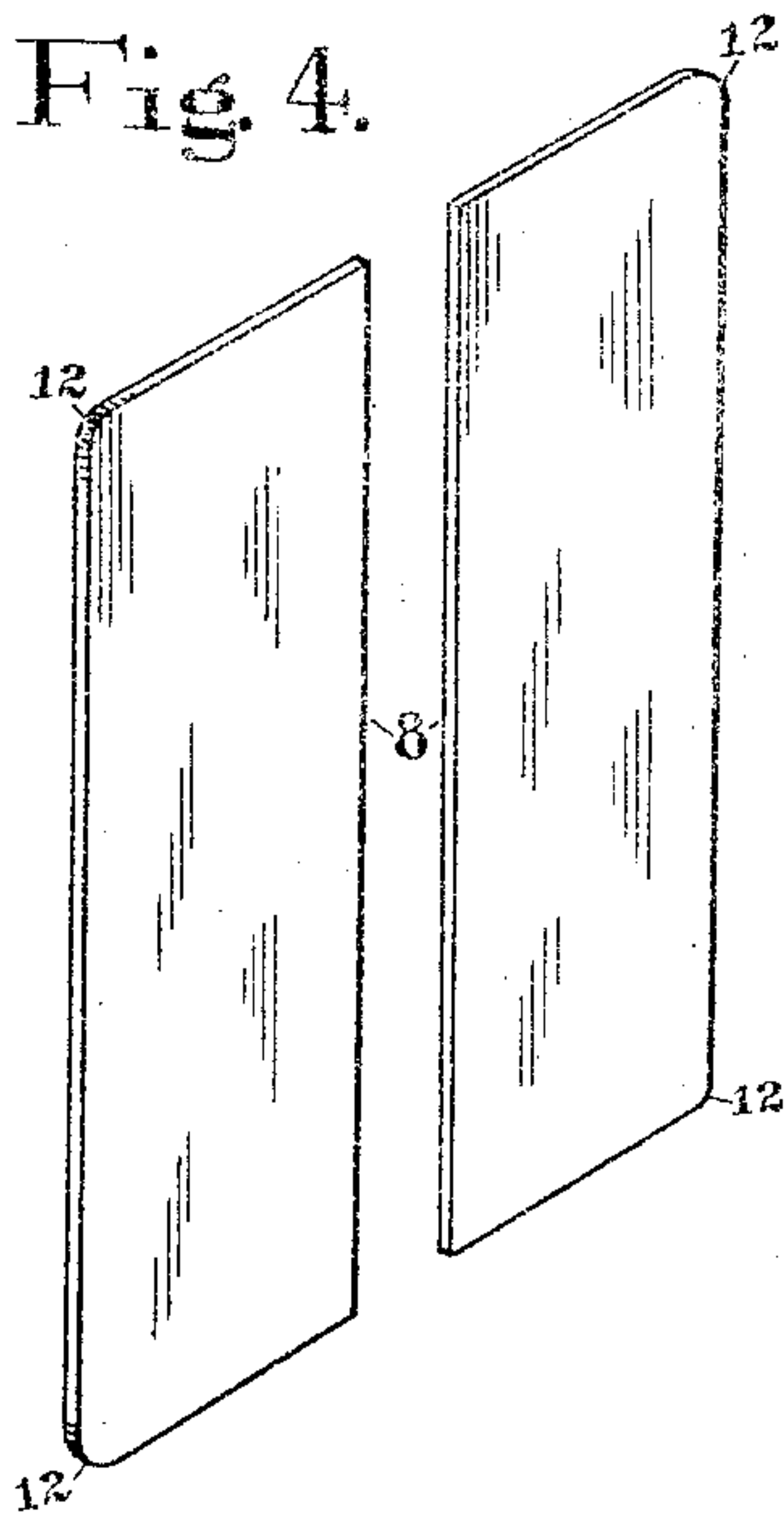


Fig. 4.



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2 SHEETS—SHEET 2.

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Fig. 5.

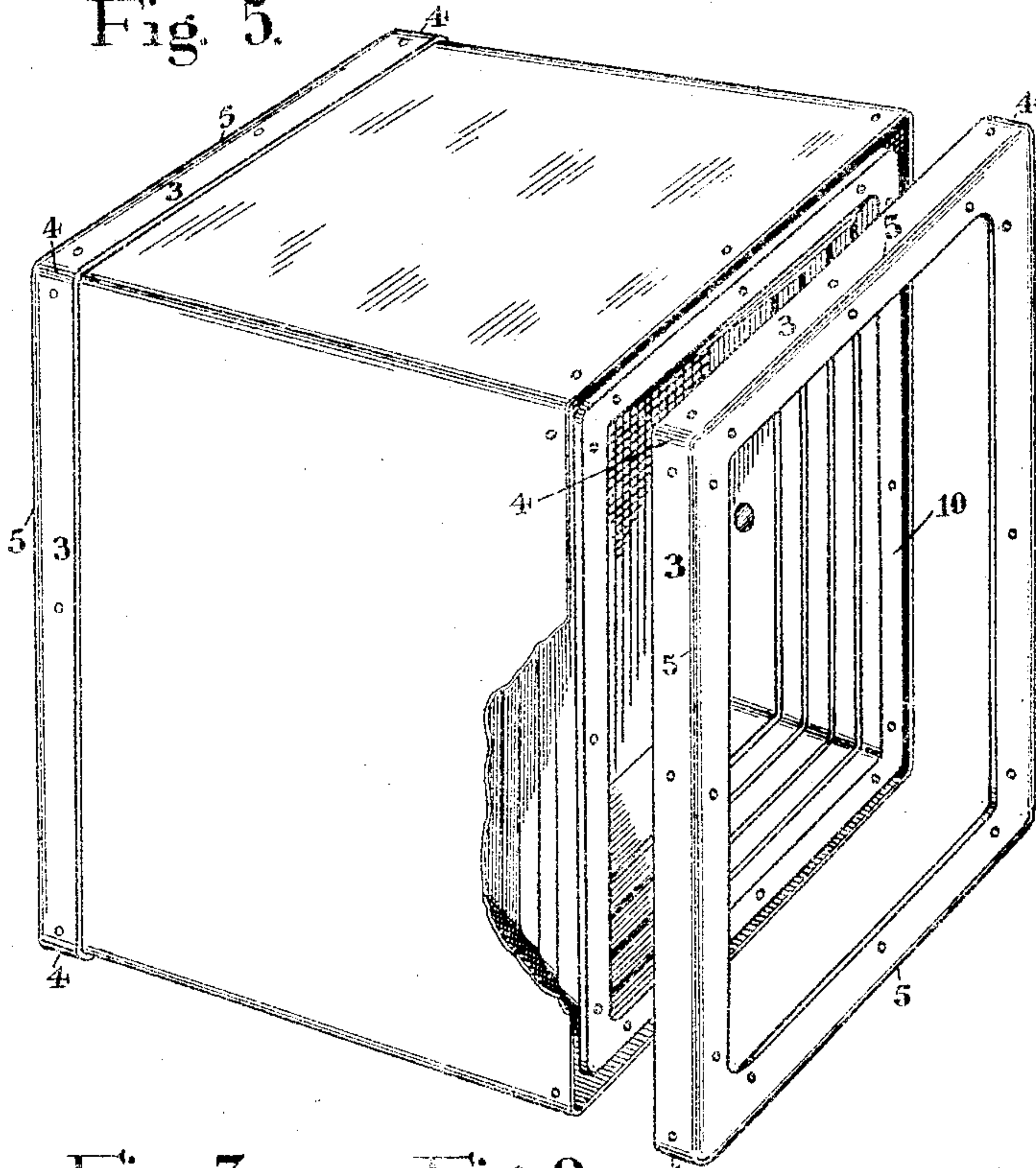


Fig. 6.

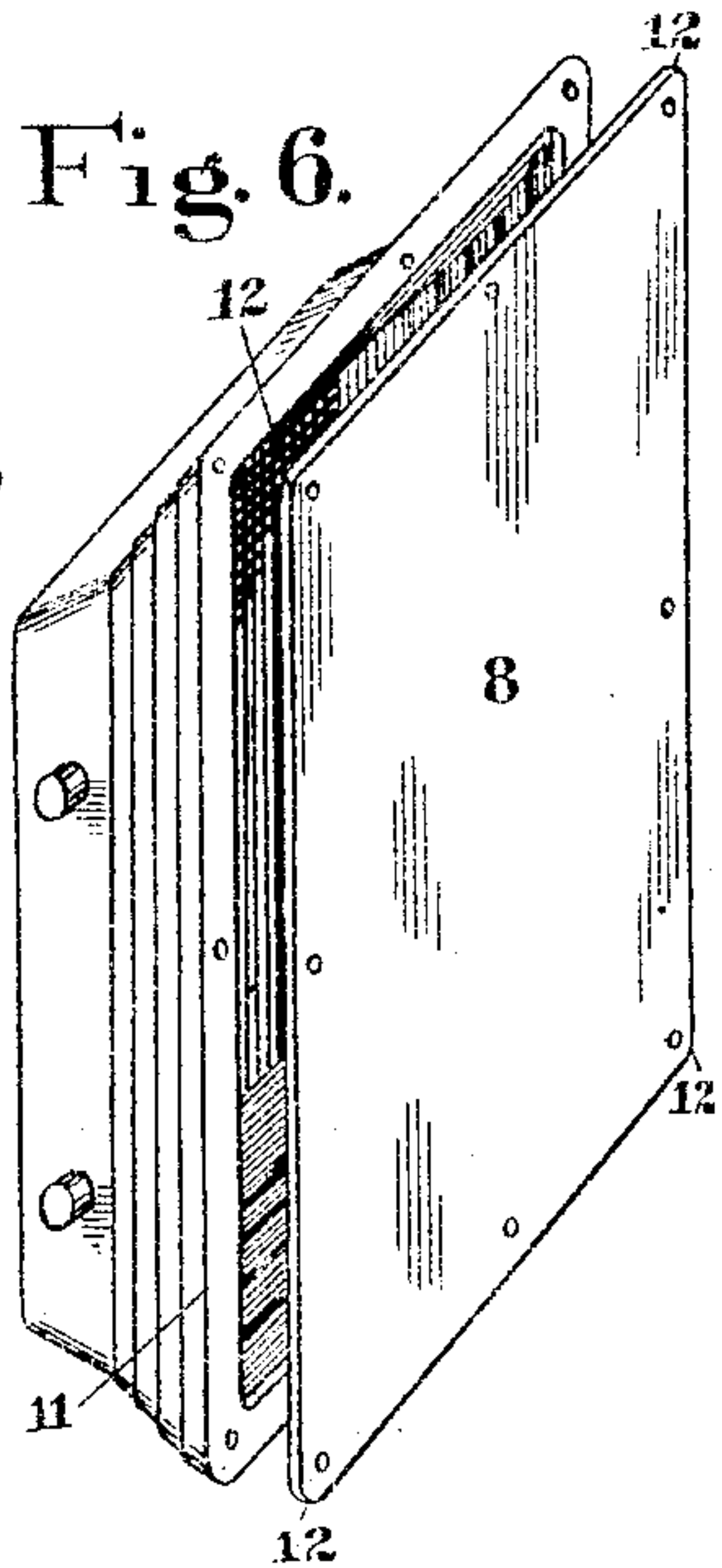


Fig. 7.

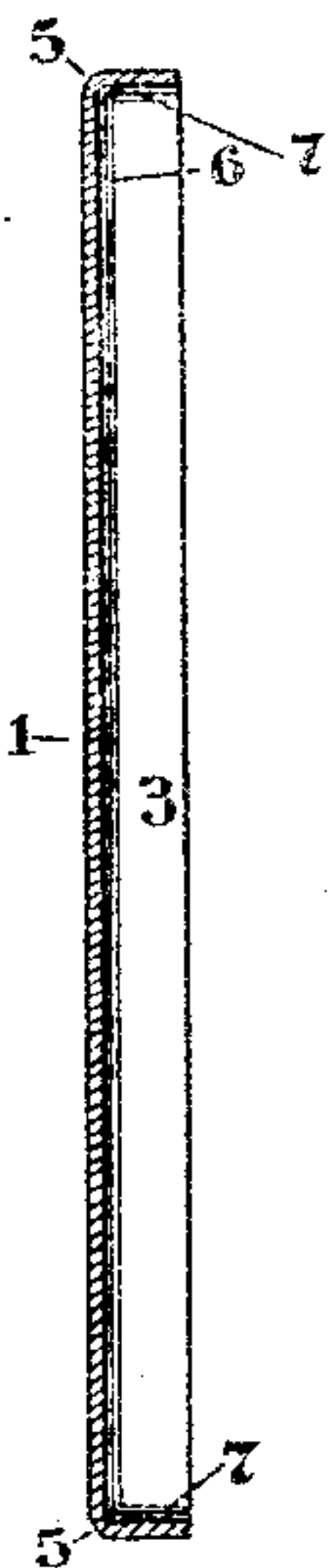


Fig. 9.

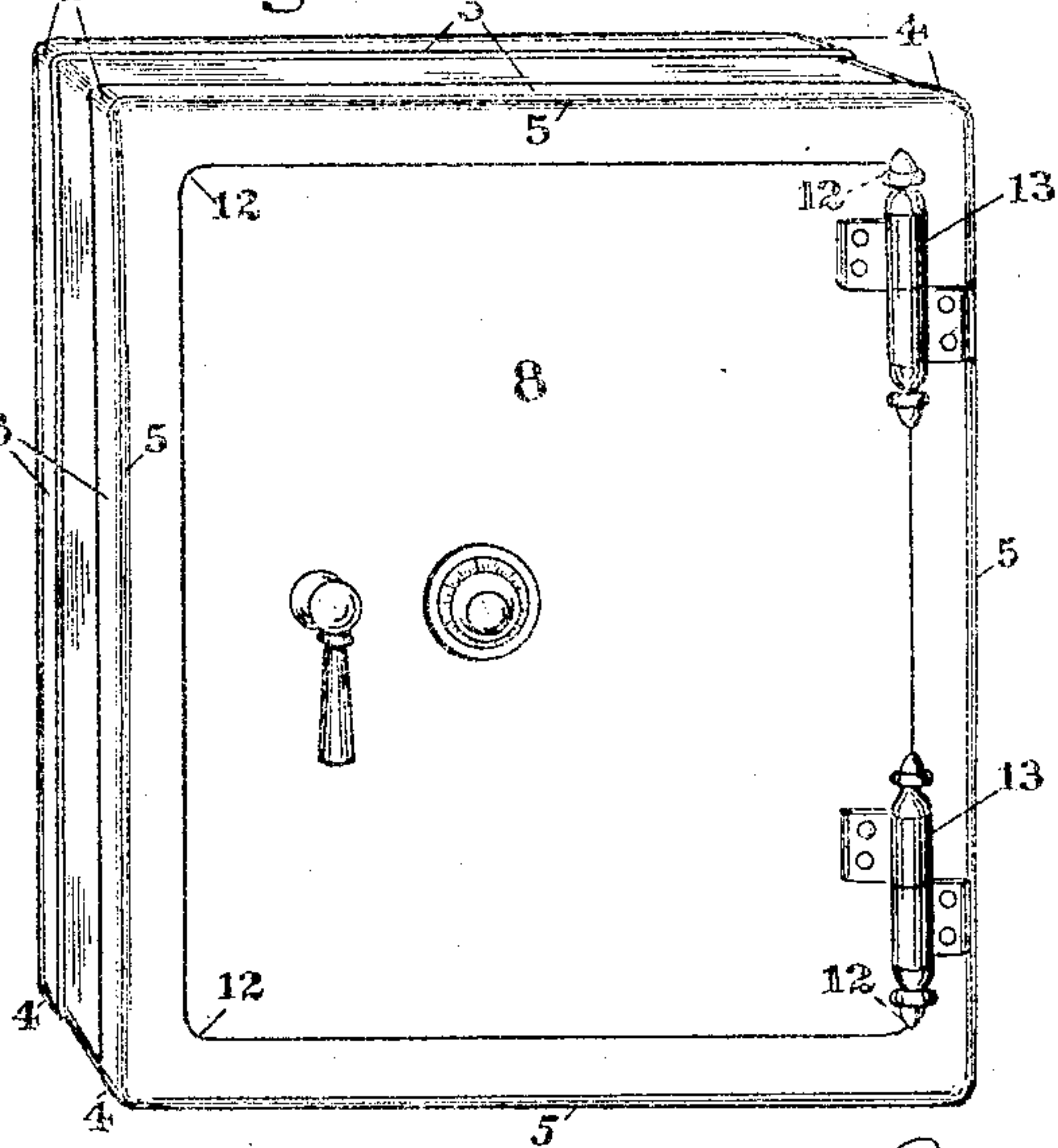
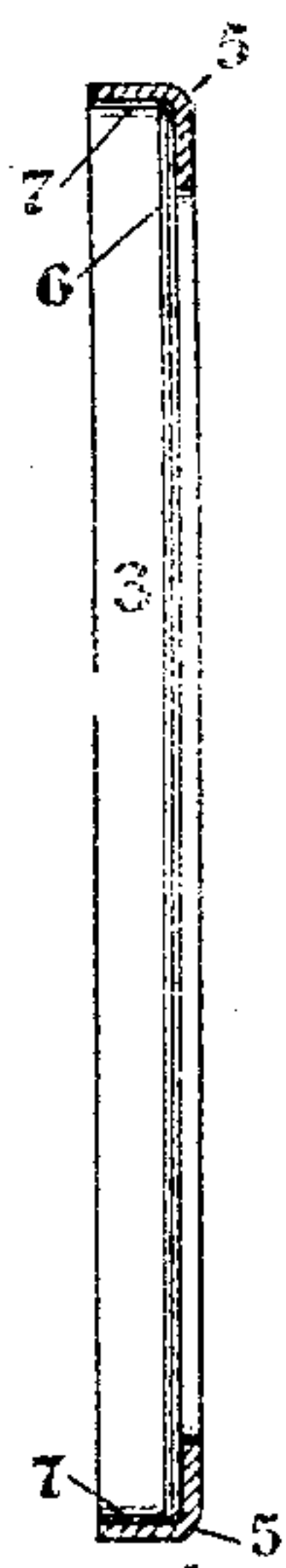


Fig. 8.



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# UNITED STATES PATENT OFFICE.

JACOB BAUM, OF CINCINNATI, OHIO.

## SAFE.

No. 900,696.

Specification of Letters Patent.

Patented Oct. 13, 1908.

Application filed February 27, 1906. Serial No. 303,255.

*To all whom it may concern:*

Be it known that I, JACOB BAUM, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Safes, of which the following is a specification.

My invention relates to improvements in the fronts of safes.

10 The object of my invention is to produce stronger, more durable and neater safe fronts more economically than heretofore constructed and to render the door plates interchangeable.

15 My invention consists in an angle plate for safe fronts formed from a single piece of sheet steel and having a flat sheet sheared therefrom and hinged therein to form the door-plate, or separated into two parts and 20 each part hinged thereto to form plates for double doors whereby an accurate and perfect fit of the door or doors is secured and economy in material, labor and machinery is effected.

25 My invention also consists in the parts and in the peculiar construction, combination and arrangement of parts as fully set forth and claimed.

In the drawings which serve to illustrate 30 my invention: Figure 1 is a plan view showing a flat plate of steel. Fig. 2 is a perspective view of the same after it has been flanged to form an angle plate having curved corners, to form the front or back of a safe.

35 Fig. 3 is a perspective view showing the reverse side of an angle plate similar to the one illustrated in Fig. 2 with the central part sheared therefrom, forming the door plate and front frame respectively. Fig. 4 is a

40 perspective view showing the door plate divided to form a double door. Fig. 5 is a perspective view showing the back fastened in position upon the outer shell and the front frame ready to be adjusted in position upon

45 same and also the frame casting which receives the door ready to be fastened to the front frame. Fig. 6 is a perspective view showing the door plate ready to be applied to the rear part of the door. Fig. 7 is a vertical section of the back of the safe. Fig. 8 50 is a vertical section of the front frame of the safe. Fig. 9 is a perspective view showing the parts comprising my invention applied in position upon the safe.

55 The article of manufacture comprising my invention is preferably constructed substan-

tially as follows: An angle plate 1 formed from a single piece of sheet steel, as shown in Fig. 1, comprising a body 2 and flange 3 and made to conform to the shape shown in Fig. 60 2 with exterior corners 4 and 5 respectively each slightly curved to form a nearly sharp angle and interior corners 6 and 7 respectively each slightly curved to form a nearly sharp angle is provided to form the back of 65 the safe as shown in Figs. 2 and 7 respectively. The door plate 8 and front frame 9, respectively, are formed by shearing the center from a part like that shown in Fig. 2 in the manner illustrated in Fig. 3 and said 70 parts are applied to the inner door frame 10 and rear part 11 of the door respectively in the manner shown in Figs. 5 and 6 respectively.

Heretofore in the manufacture of safes, 75 the front frame and door plate were constructed from different pieces of metal and independently of each other. The opening for the door plate in each front frame varied somewhat from the door plate opening in 80 every other frame, and the door plate being constructed separately from the front frame and from different metal than the front frame, varied in size from the opening in the front frame for which it was intended so that 85 there would be some difference in the size of each door opening to receive the door plate, thus requiring each door plate to be made larger than needed and trimmed down to the proper size to make it fit perfectly in the 90 front frame. This manner of constructing the safe fronts was unsatisfactory because of the great expense in constructing them due to loss of material and greater skill in workmanship required as well as producing door 95 plates which were not interchangeable.

By constructing the front frame and door from a single piece of sheet steel formed in the shape of an angle plate and having the central part sheared therefrom to form the 100 door plate 8 and front frame 9 respectively I am enabled to utilize all of the sheet metal plate from which the front frame and door respectively are formed, and to secure absolute uniformity in size of door plate, door 105 opening and door frame in the front of every safe, thus rendering both the front frames and door plates interchangeable. I am also by this means enabled to utilize all of the sheet metal plate from which said front frame and 110 door plate are constructed, by cutting the door plate 8 from the angle plate 1 by means



of a shearing die thereby obtaining an absolutely perfect fit between the meeting edges of the front frame and door plate respectively without the requirement of special treatment 5 of the door plate or frame, such as removing excess metal from the door plate to reduce its size to conform to the door opening in the front frame, or hammering the door plate to increase its size to produce an accurate fit 10 therein, thus effecting a great saving in work and material and enhancing its design in contour and symmetry.

The door plate 8 is riveted to the rear part 11 of the door carrying the locking mechanism and is pivotally secured to the front 15 frame by means of suitable hinges 13 riveted to said door plate 8 and front frame 9 respectively.

When a double door is desired the door 20 plate 8 may be cut in two as shown in Fig. 4 and hinged within the frame between the curved outer corners 12 of each plate thus divided.

An important advantage derived from 25 this construction is in the ability of the owner of the safe to replace doors which have been

damaged by burglars or otherwise without the expense of shipping the entire safe to the manufacturer for that purpose, all that is necessary being to inform the manufacturer 30 of the size of the door required and from this information the manufacturer can duplicate it and the owner can have it easily and quickly placed in position upon his safe and obtain a perfect fit without modifying or changing its 35 form, shape or size in the slightest degree.

Each door plate for safes of the same size is exactly the same in dimensions and exactly the same in dimensions of every door opening of the front frame from which they 40 are taken and are accordingly interchangeable.

I claim:

In a safe, a flanged front plate formed from a single piece of sheet metal and having a 45 plate sheared therefrom and hinged thereon to form a door, substantially as described and for the purposes set forth.

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Witnesses:

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