

No. 720,864.

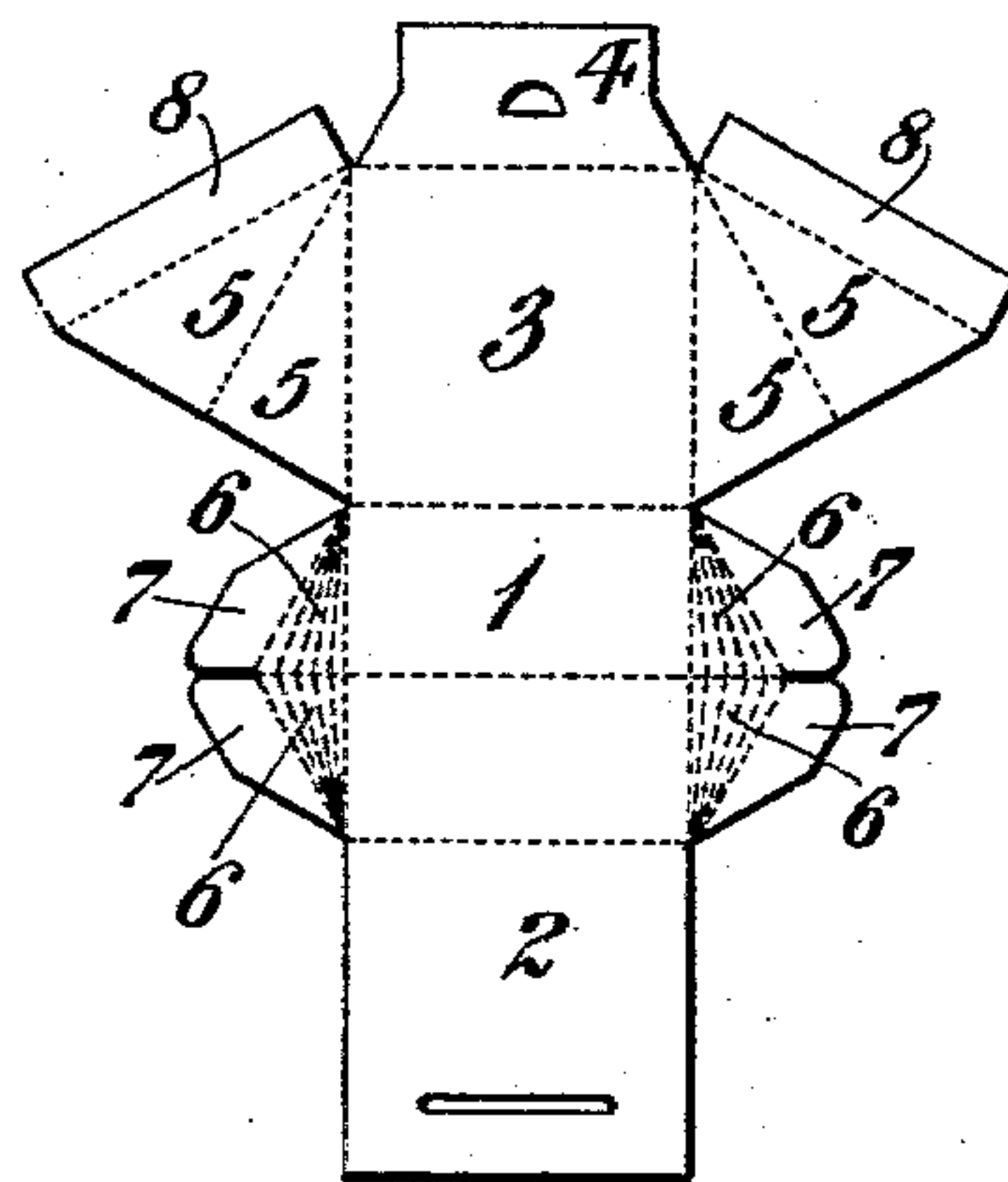
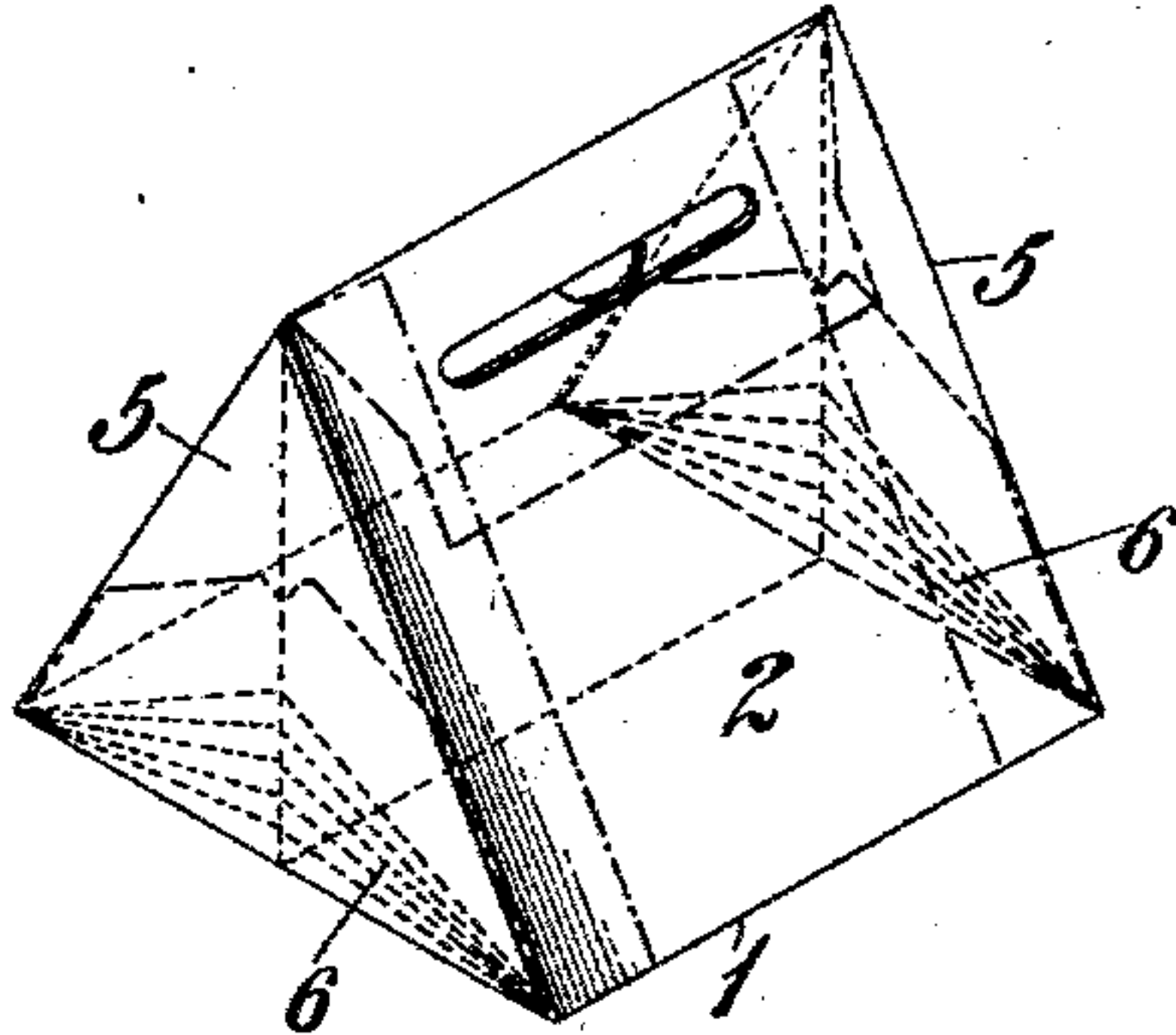
PATENTED FEB. 17, 1903.

F. A. WALTER.  
SEALED FOLDING HOLLOW BODY.  
APPLICATION FILED OCT. 2, 1902.

NO MODEL.

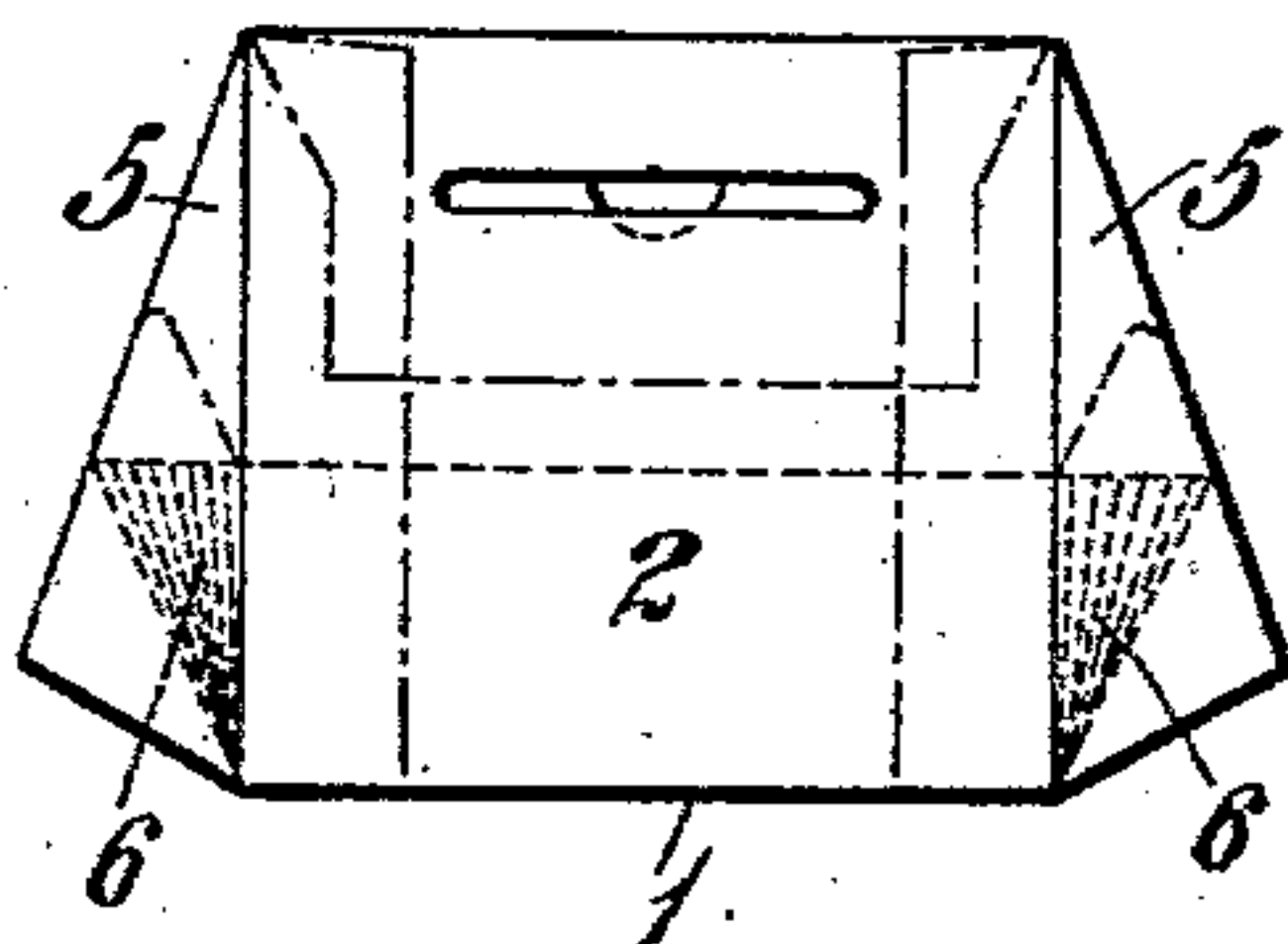
7 SHEETS—SHEET 1.

*Fig. 1.*

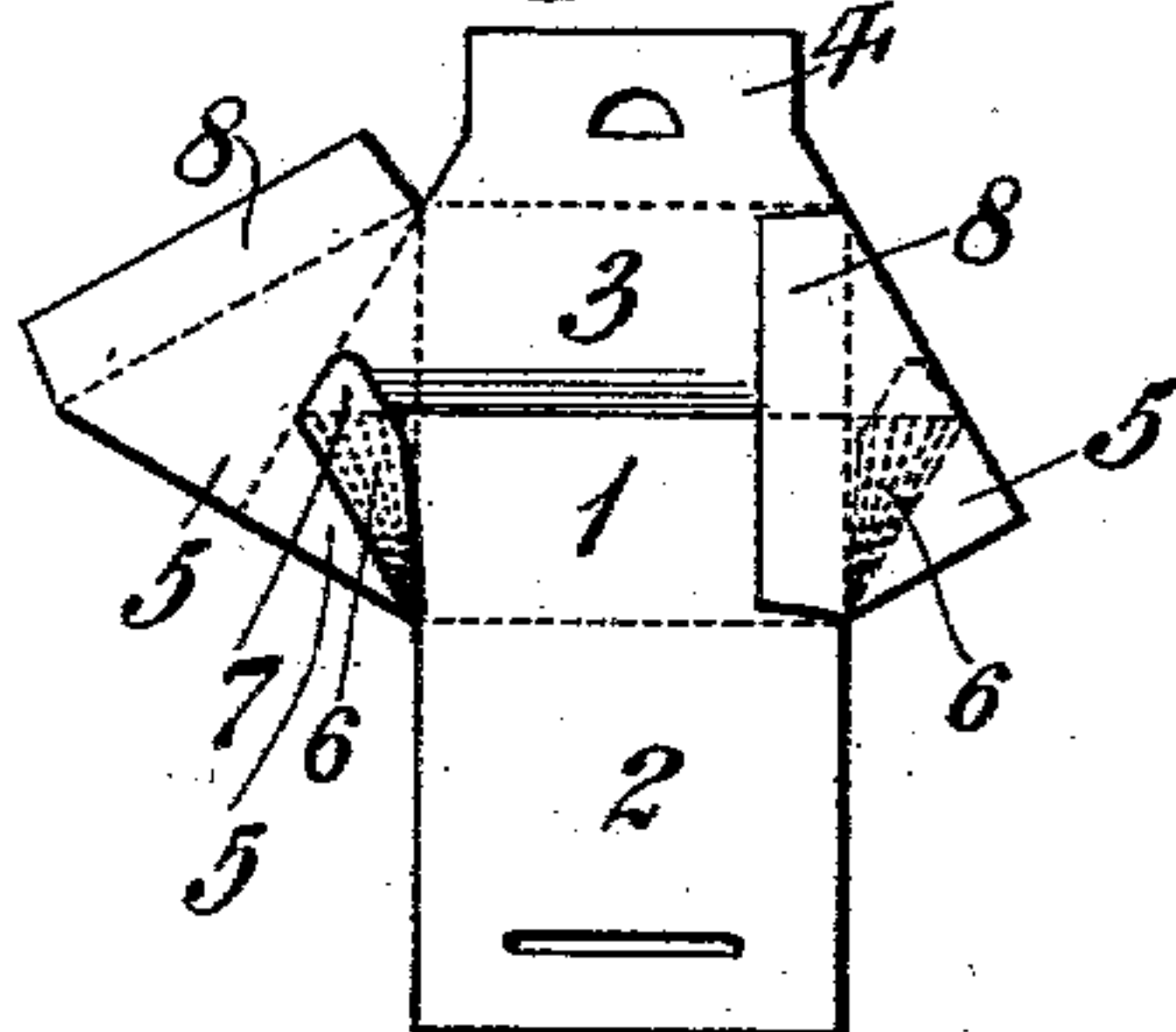


*Fig. 2.*

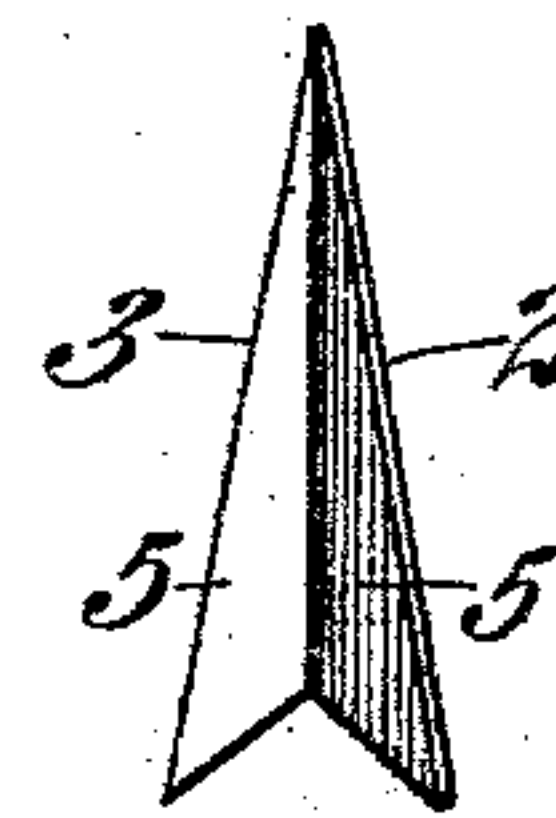
*Fig. 3.*



*Fig. 5.*



*Fig. 4.*



Witnesses

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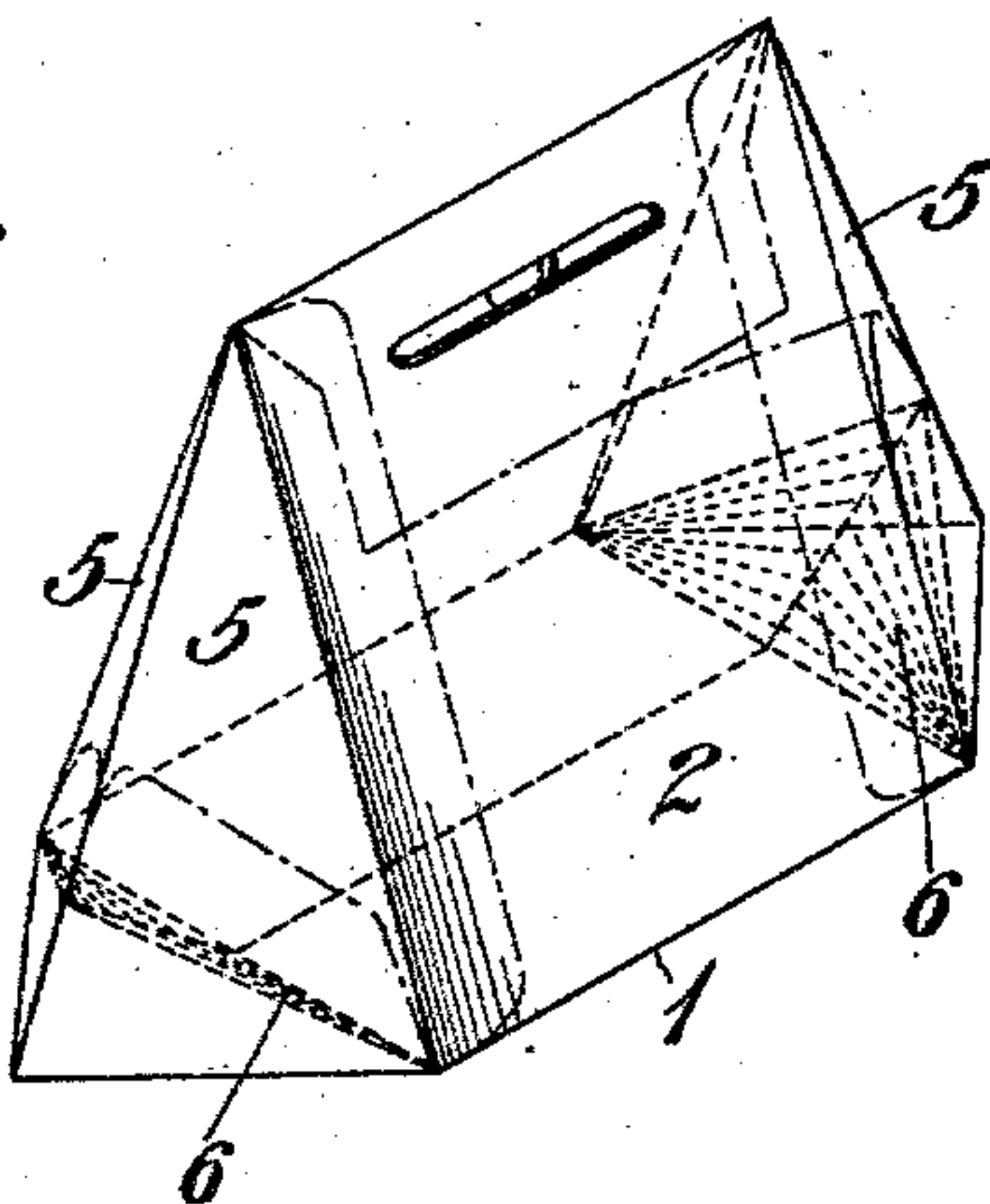
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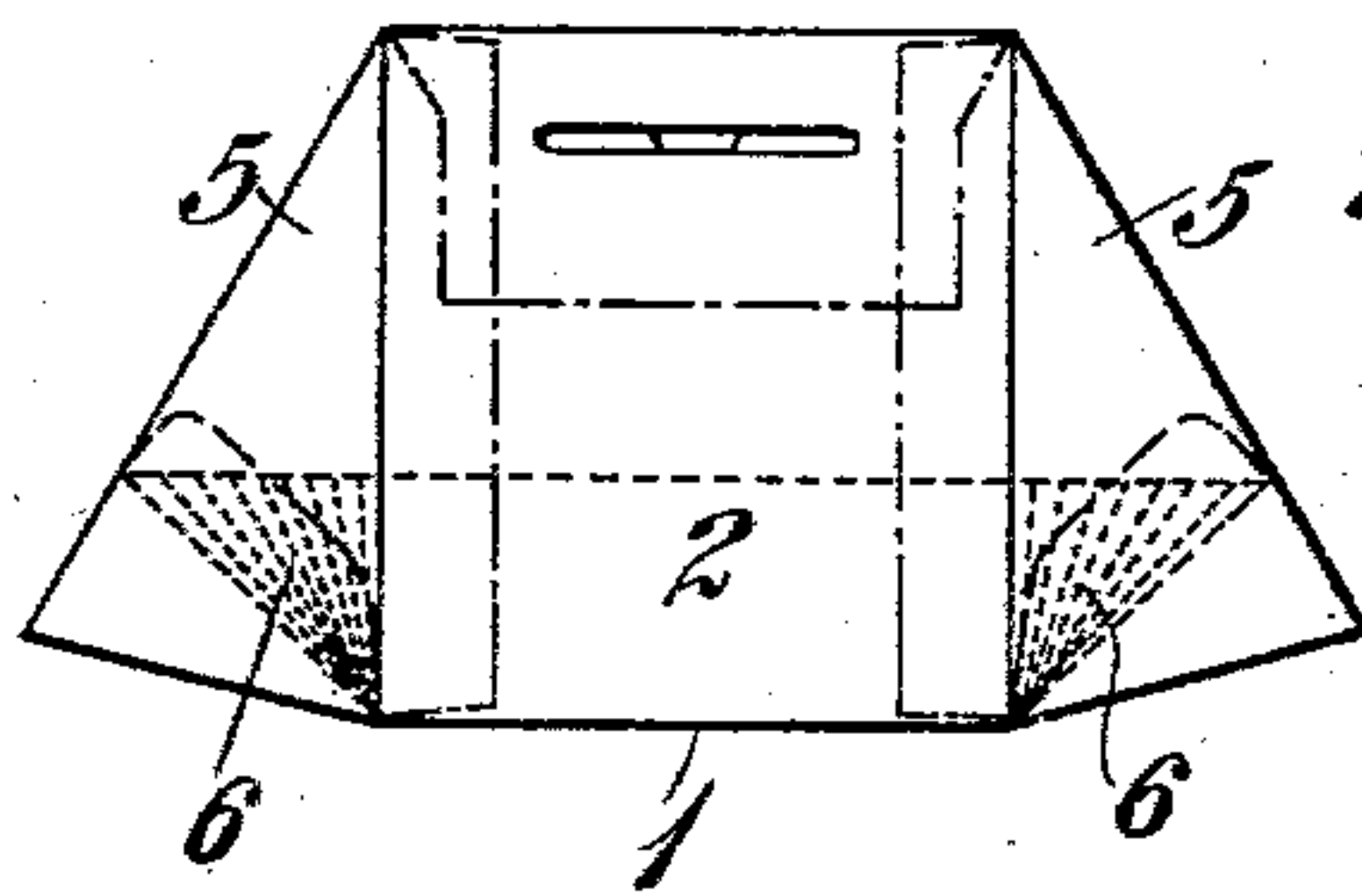
NO MODEL.

7 SHEETS—SHEET 2.

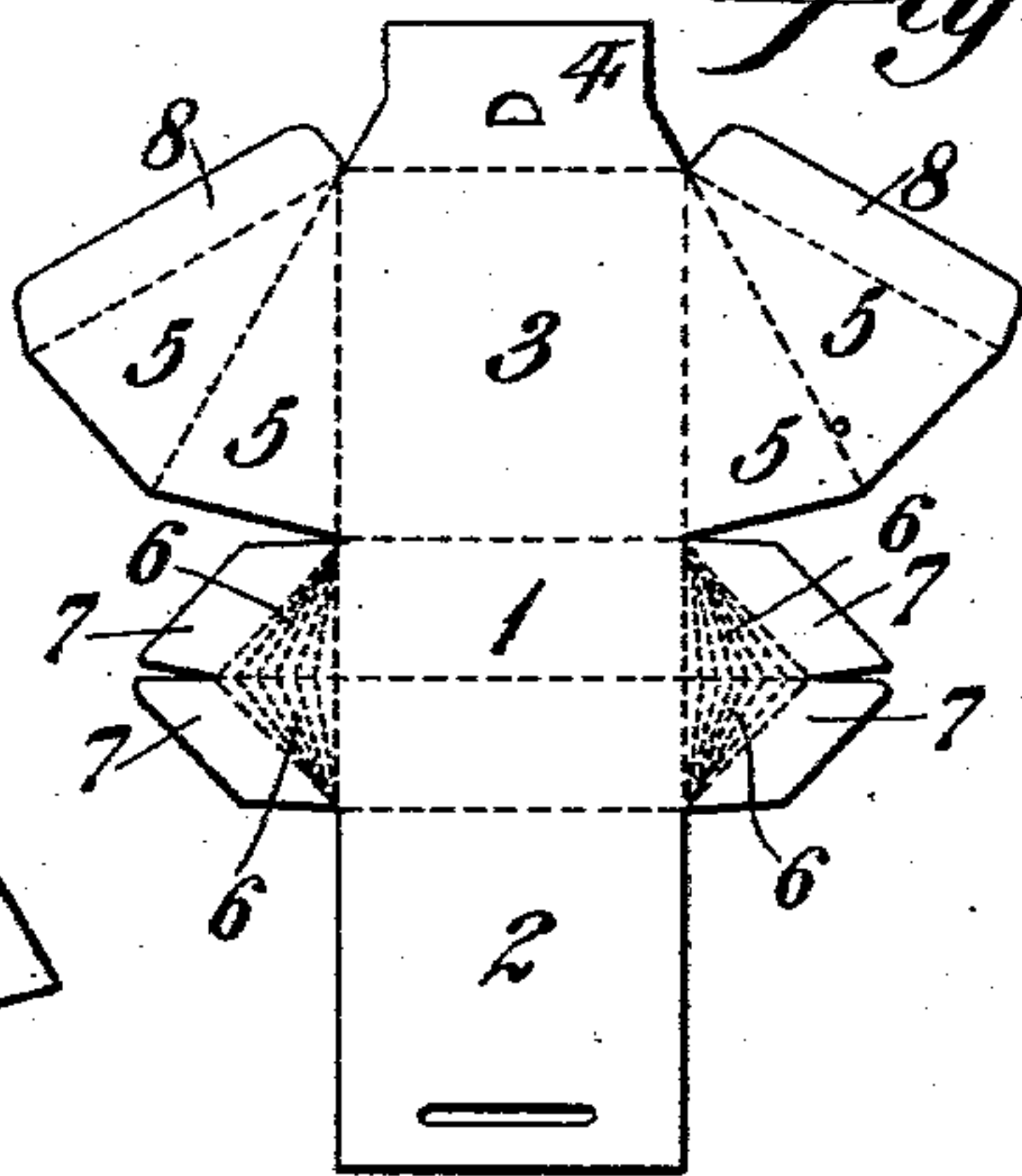
*fig. 6.*



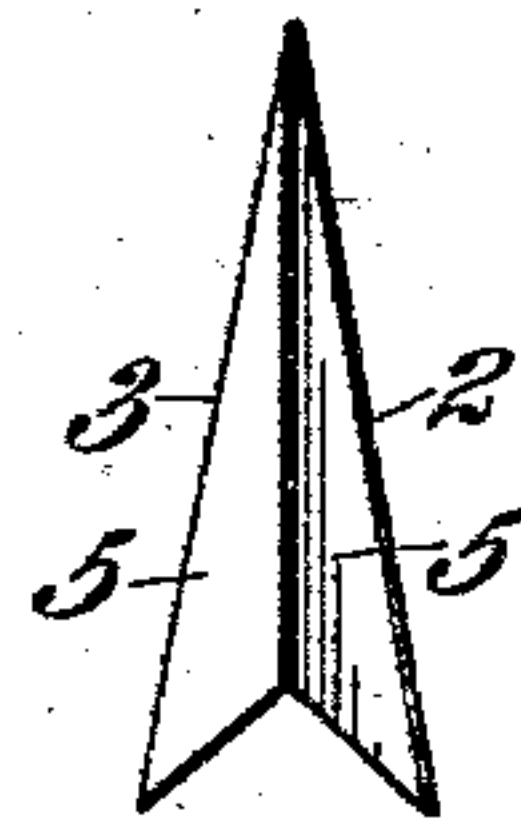
*fig. 8.*



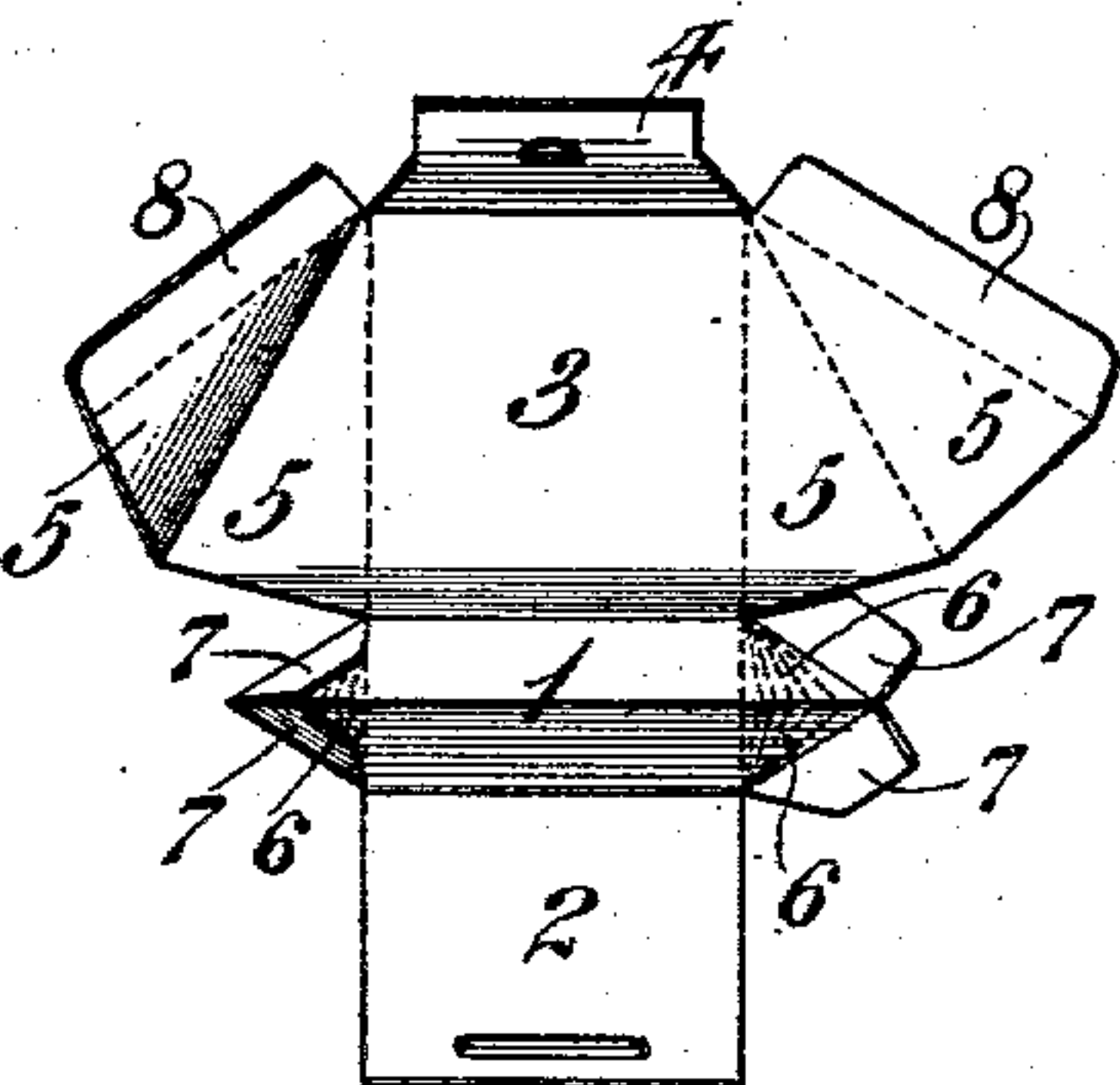
*fig. 7.*



*fig. 9.*



*fig. 10.*



Witnesses

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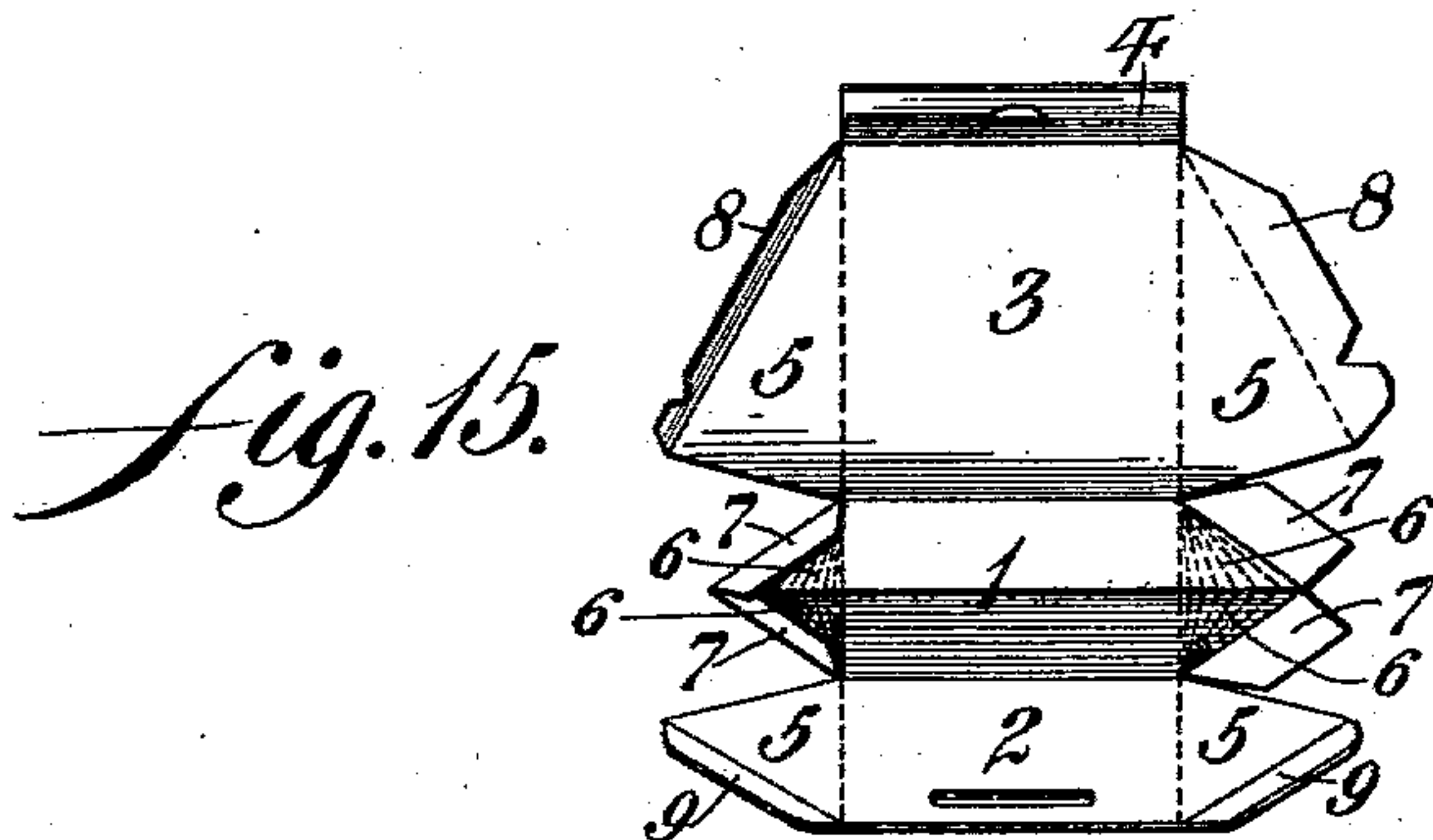
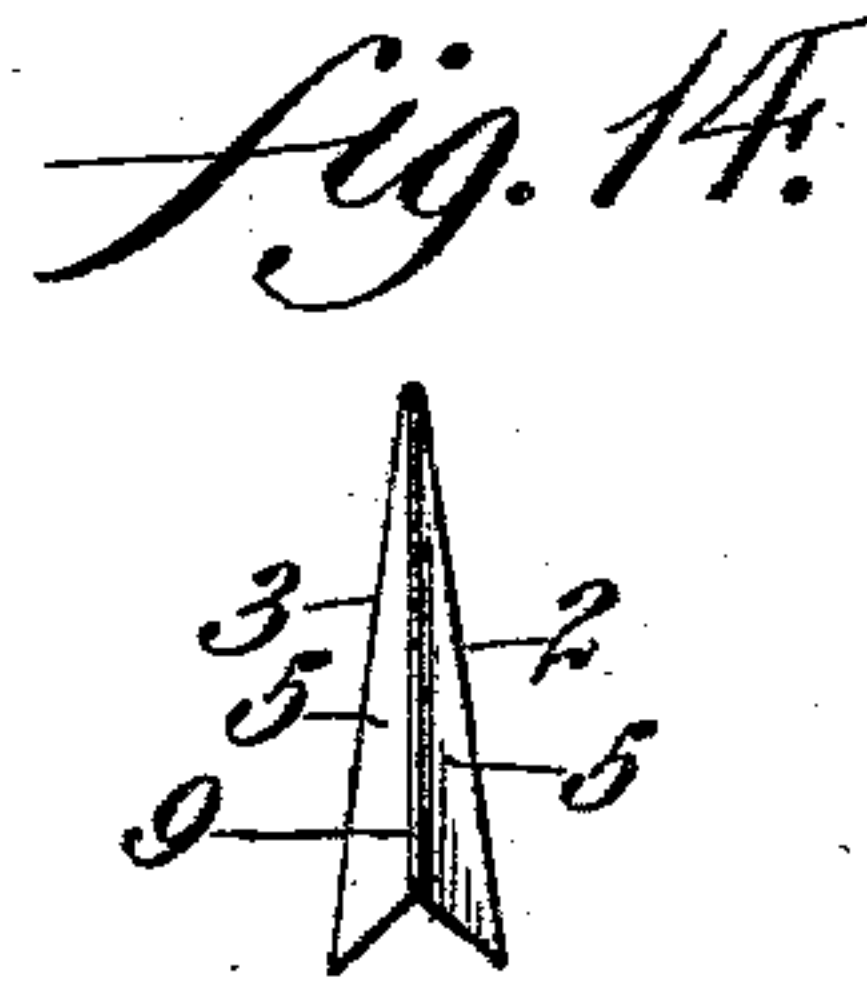
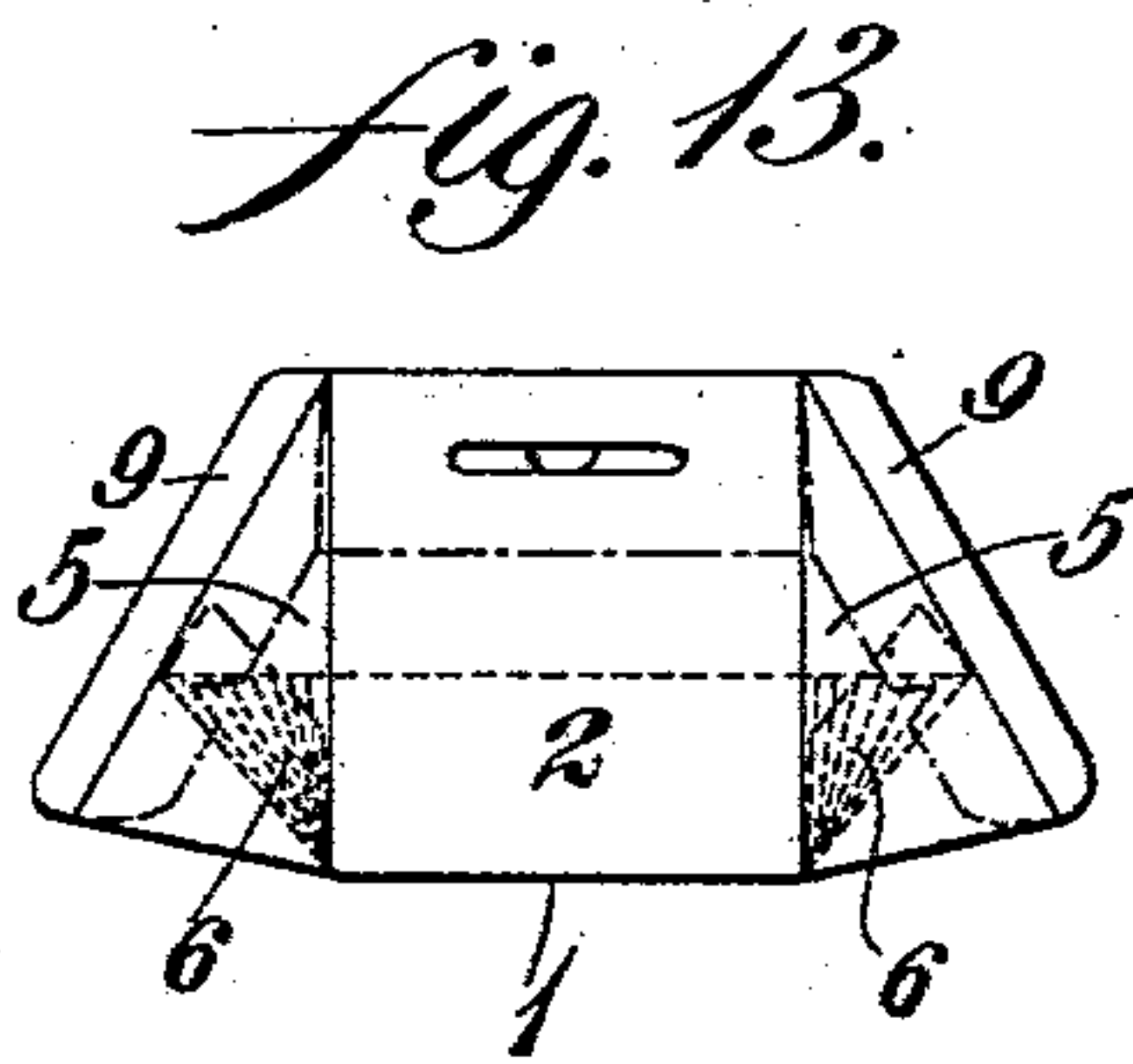
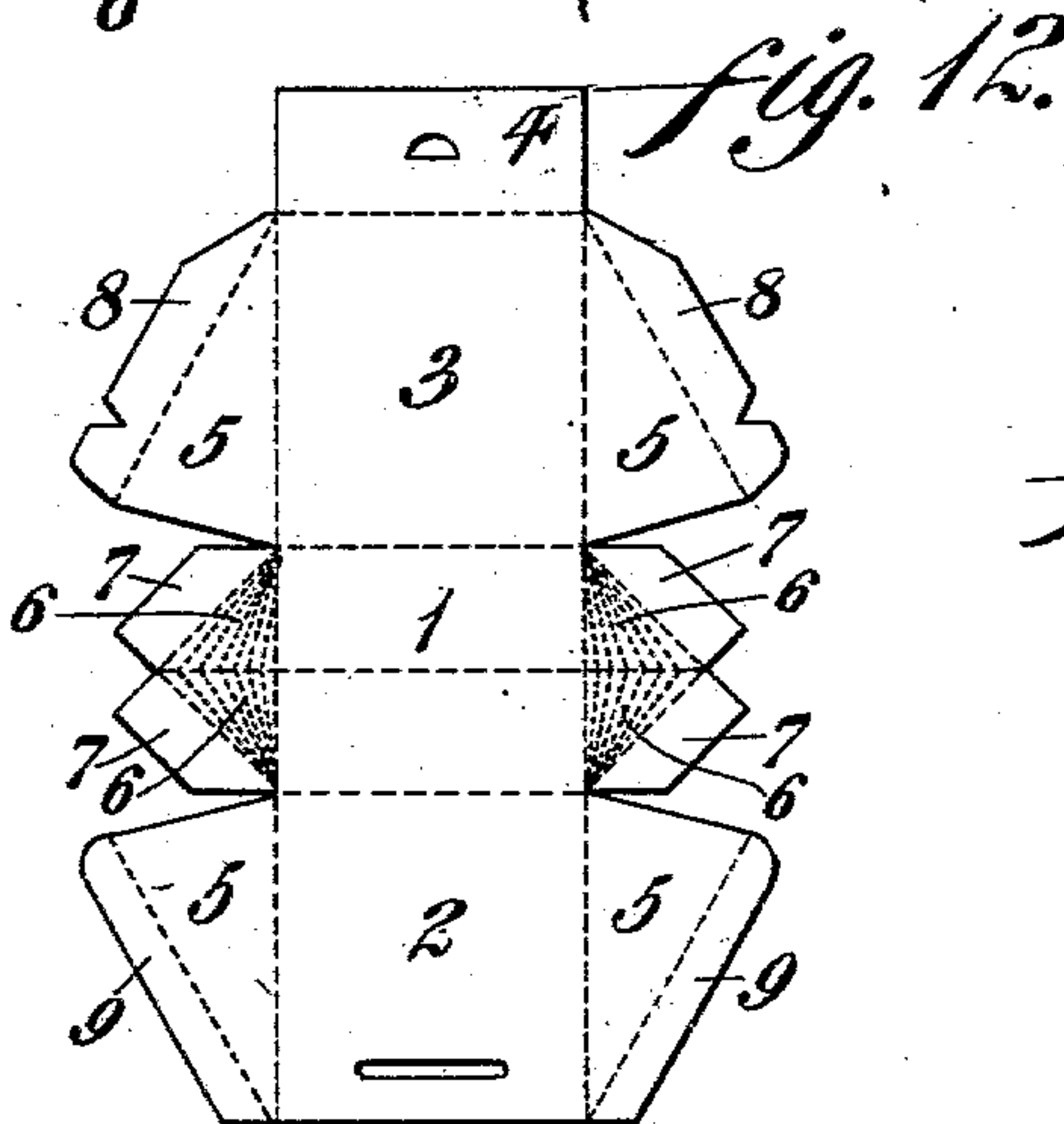
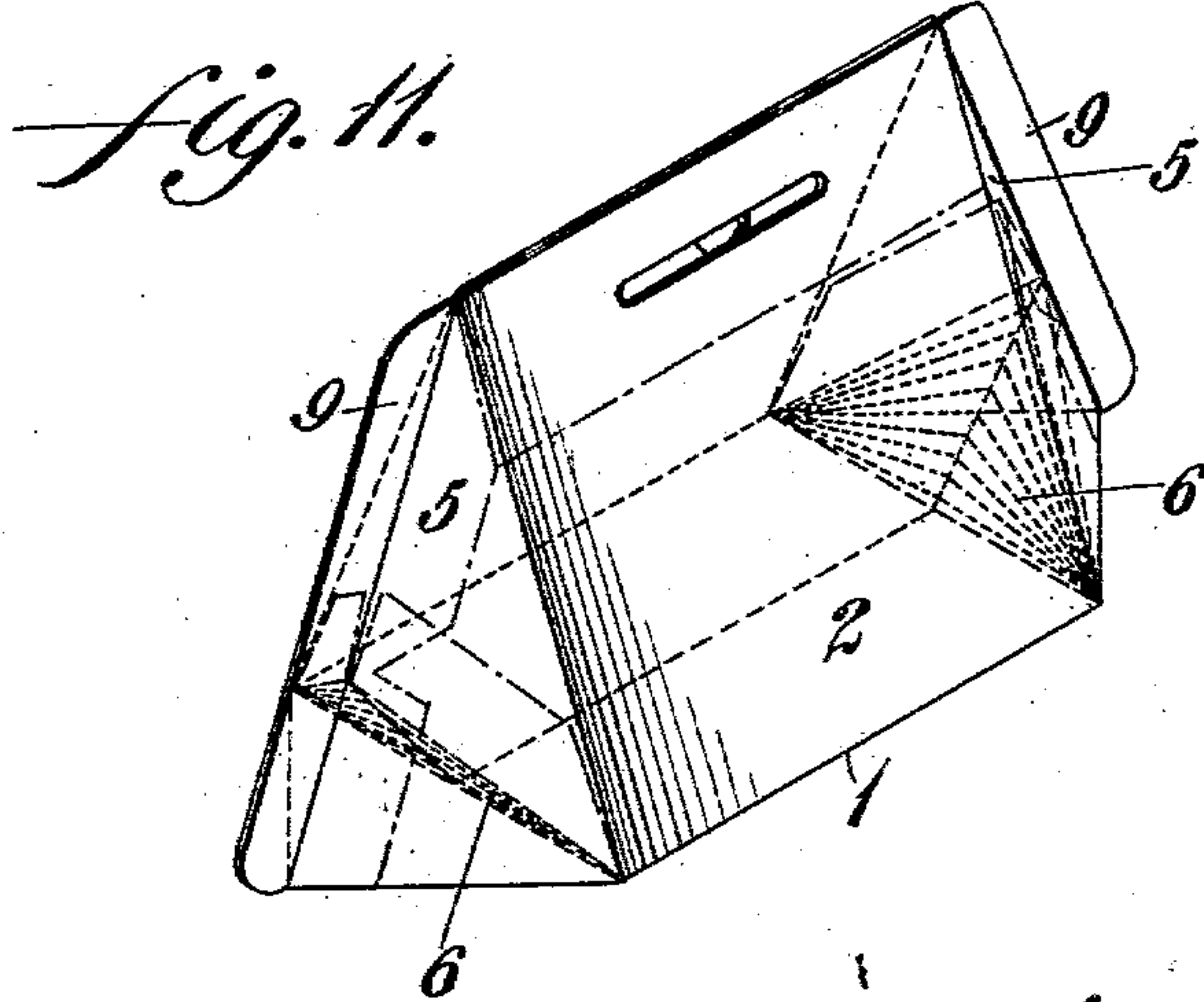
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NO MODEL.

7 SHEETS—SHEET 3.



Witnesses

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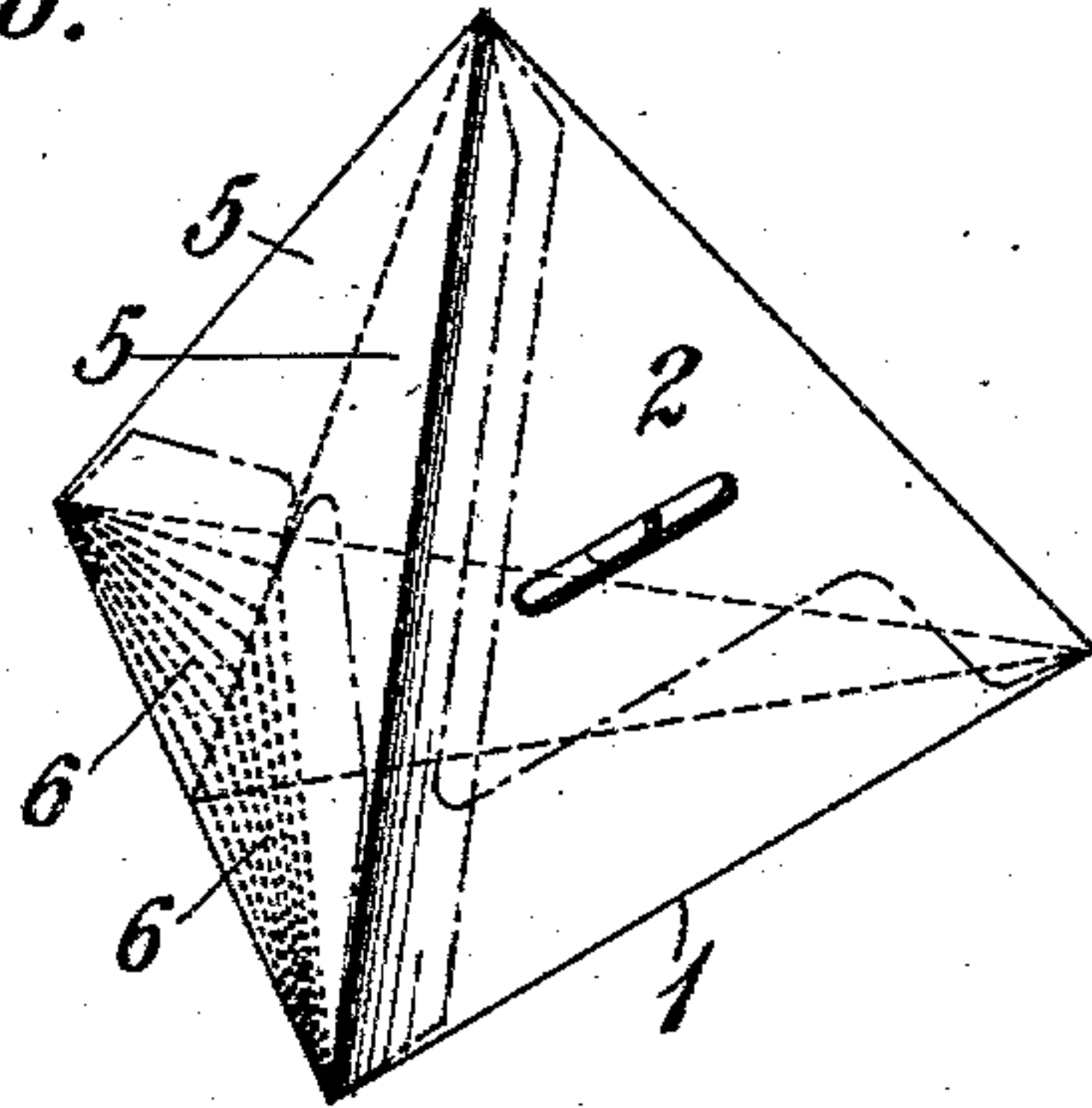
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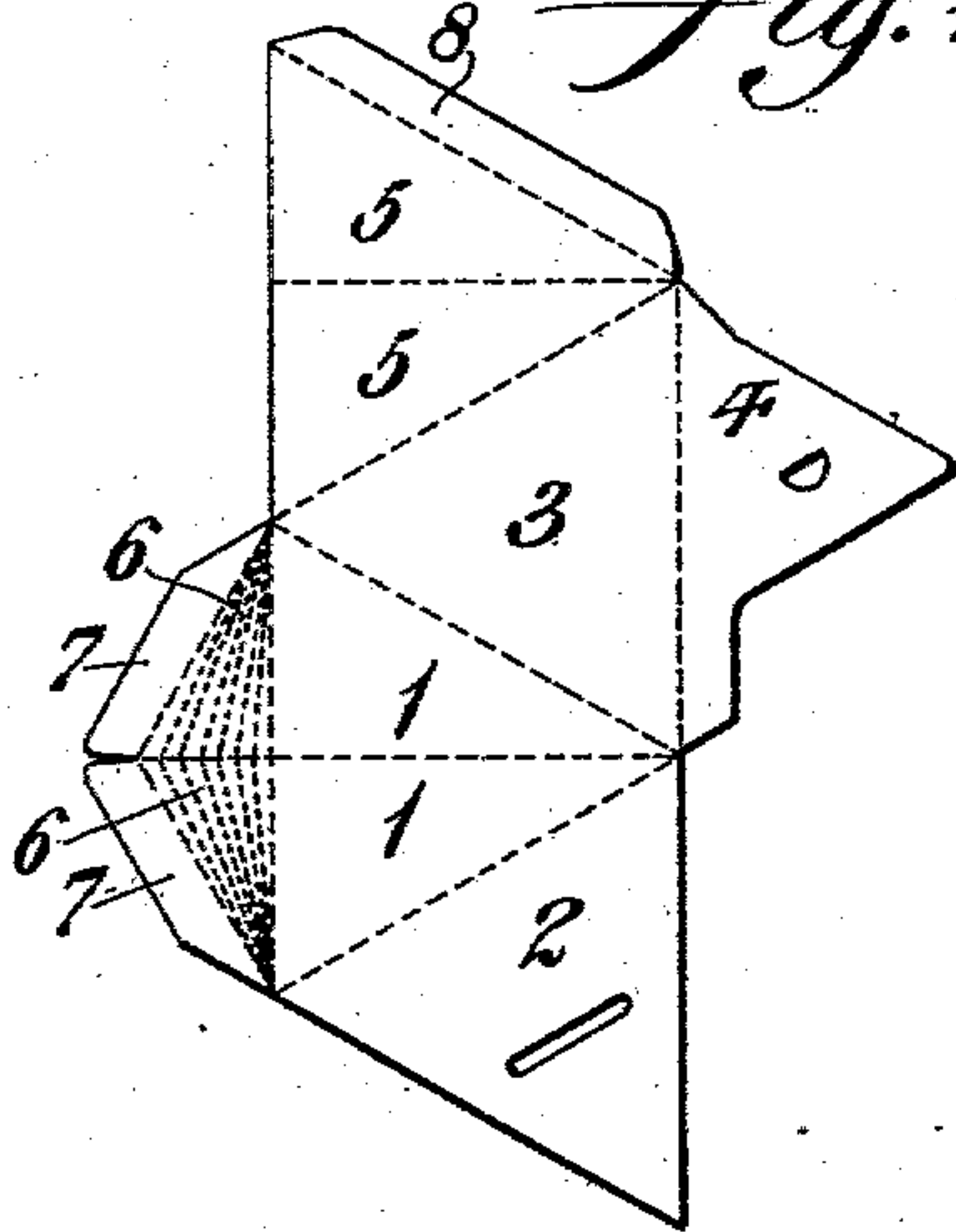
NO MODEL.

7 SHEETS—SHEET 4

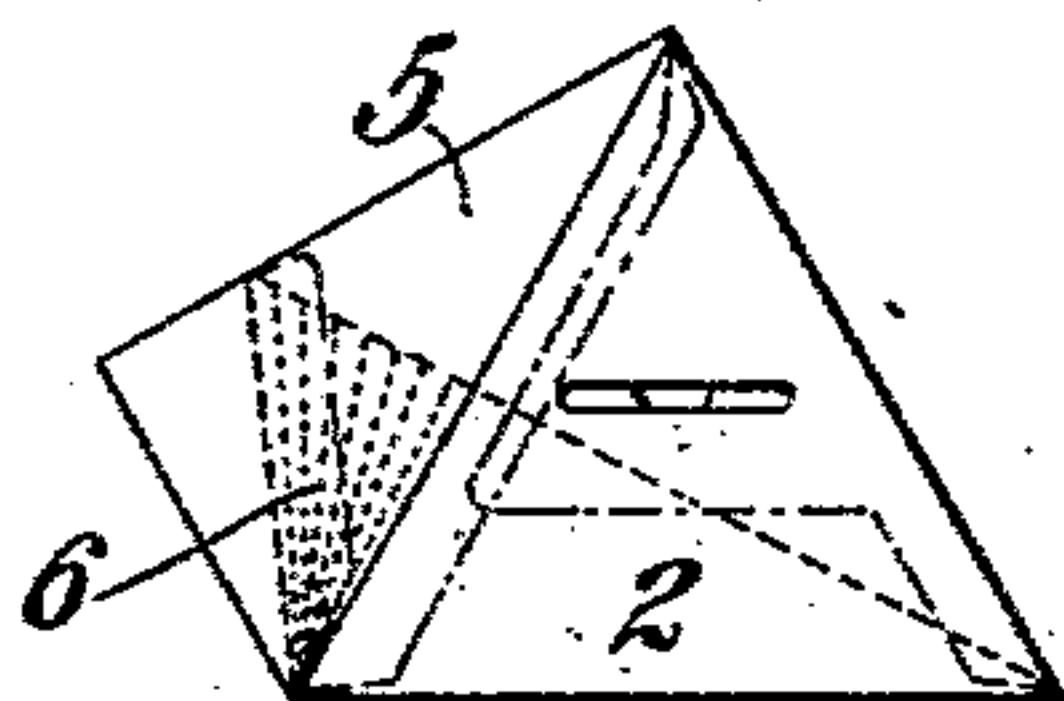
*fig. 16.*



*fig. 17.*



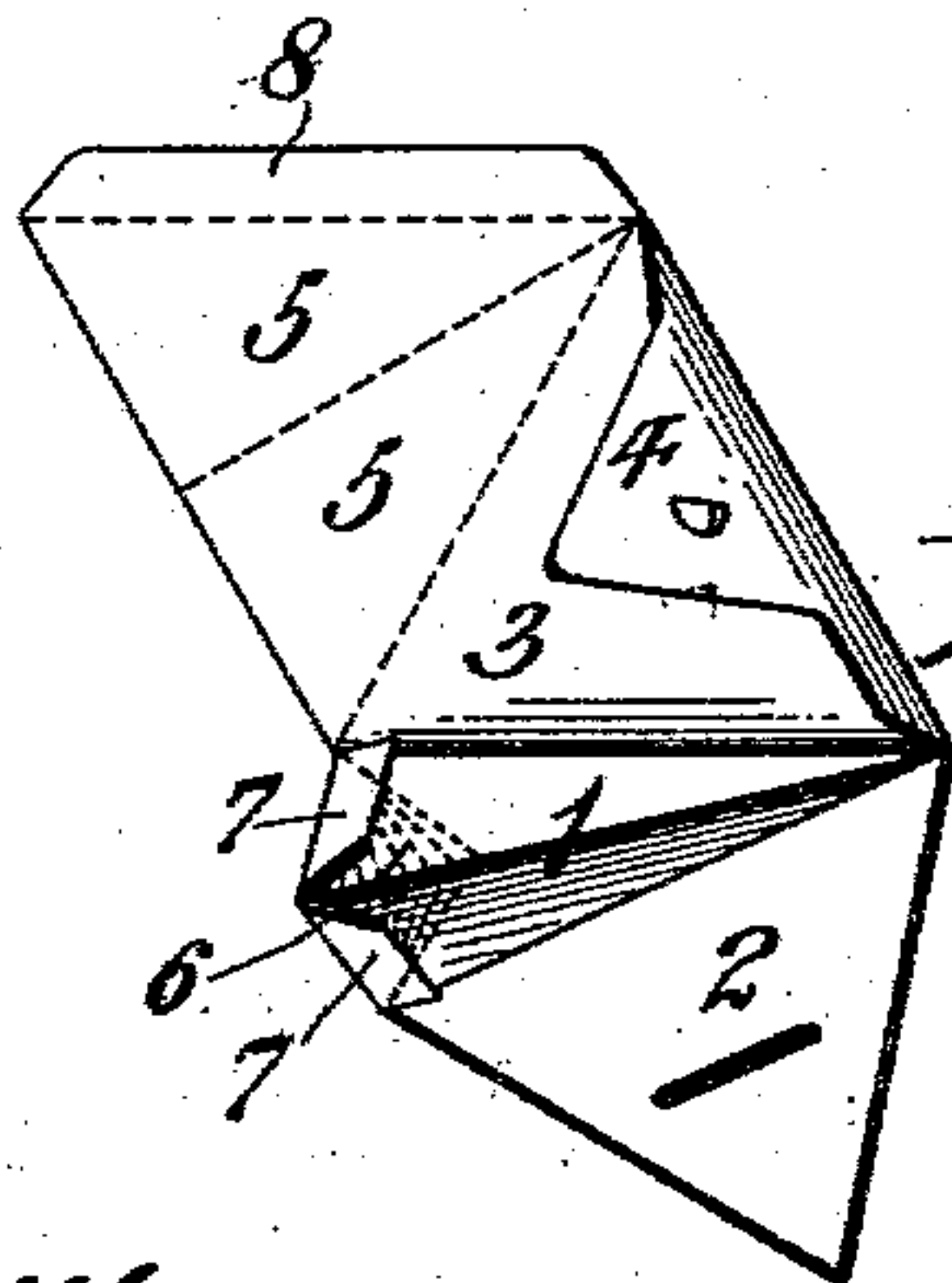
*fig. 18.*



*fig. 19.*



*fig. 20.*



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7 SHEETS—SHEET 5.

*Fig. 21.*

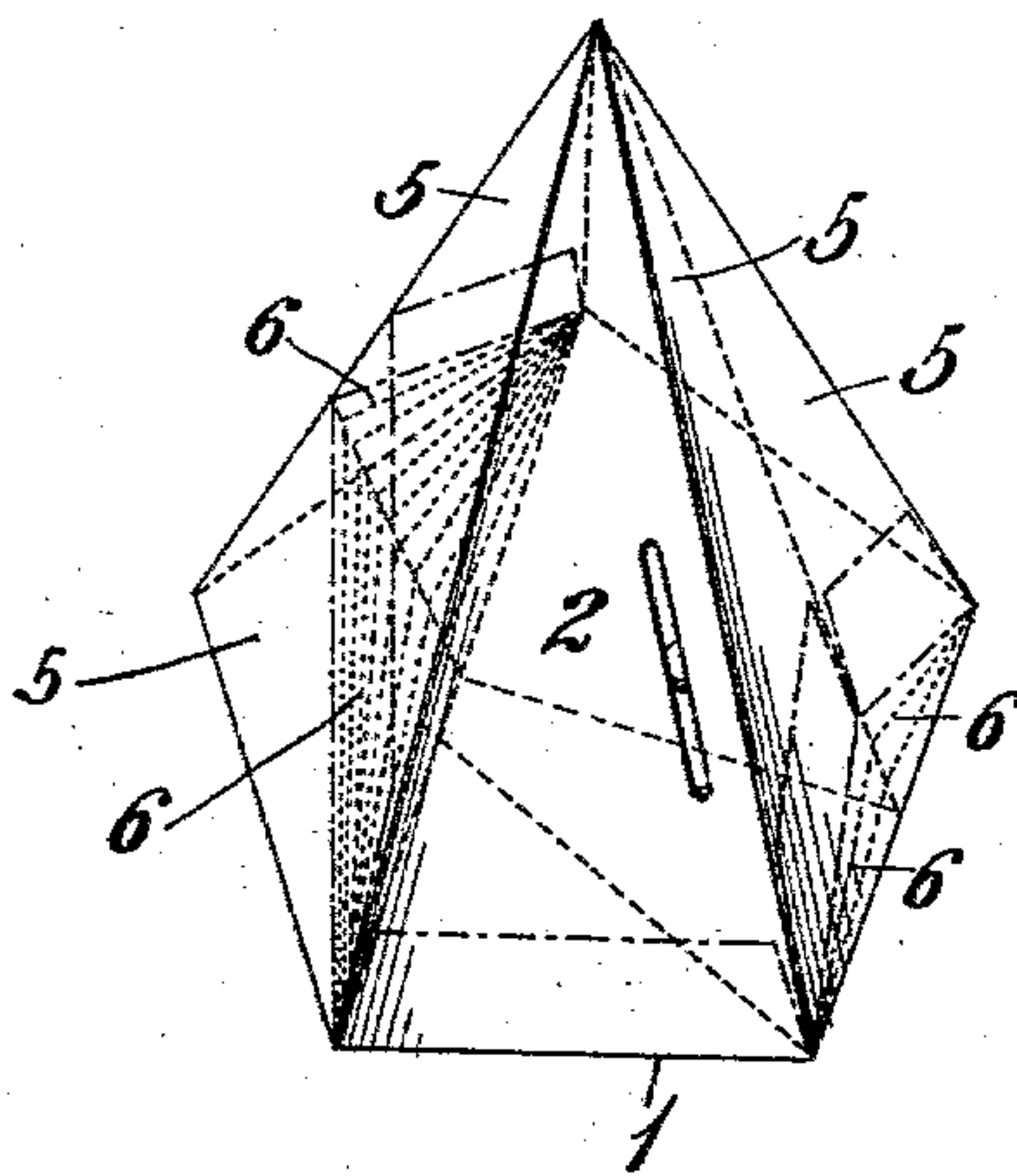
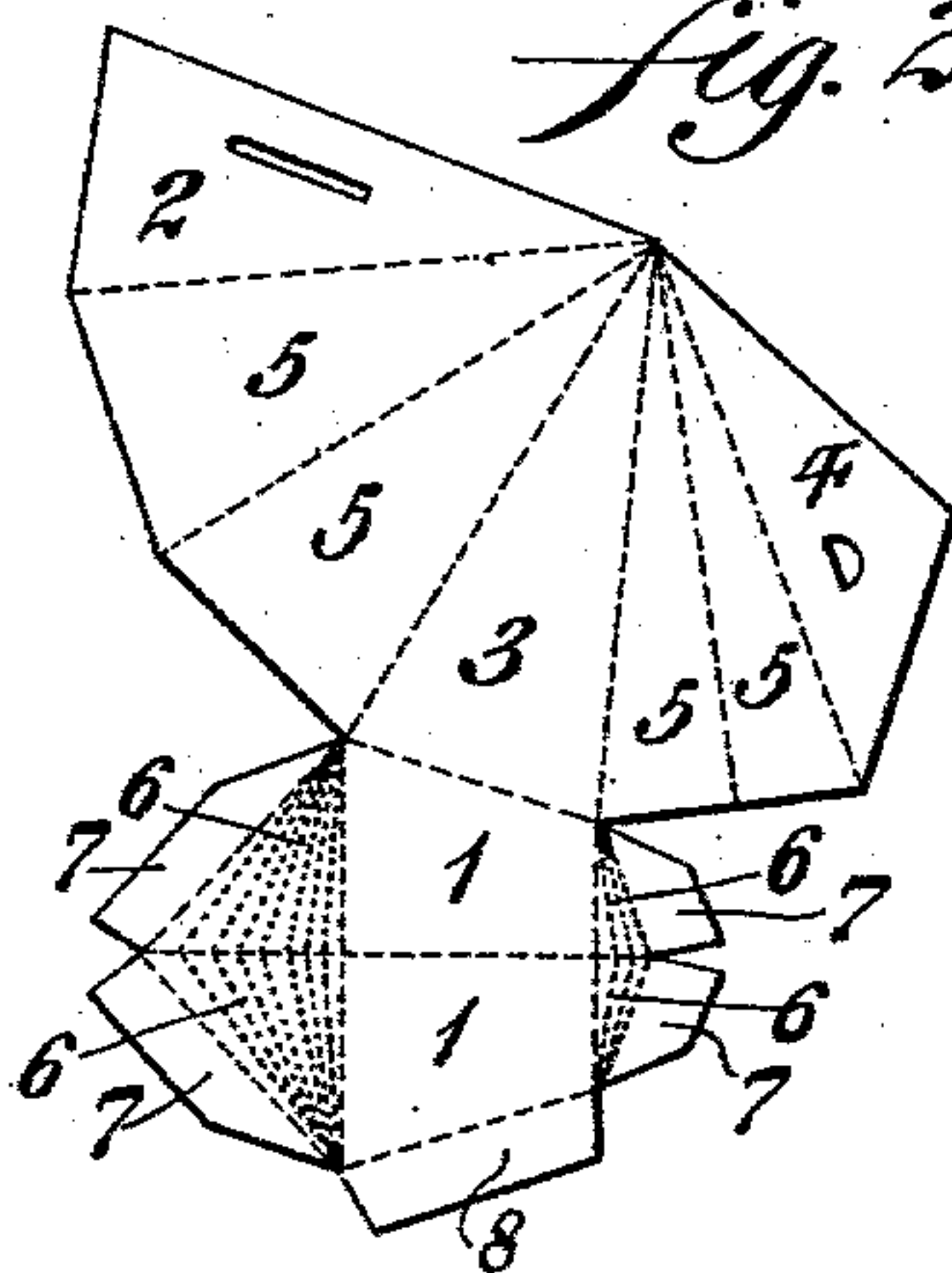
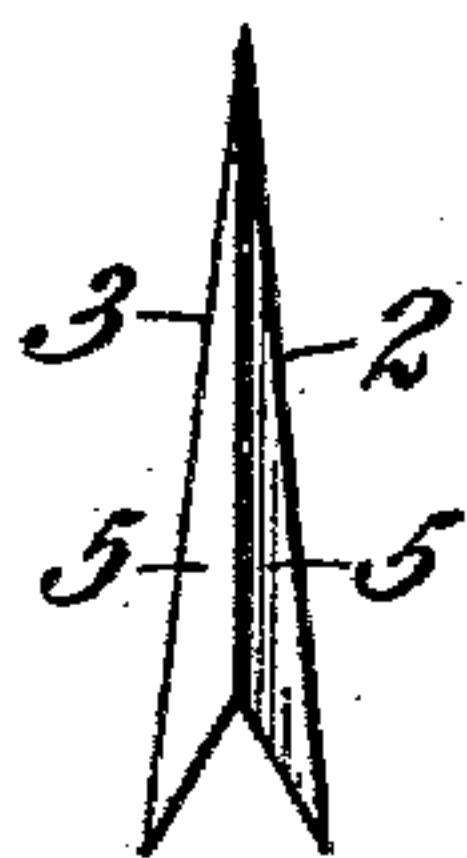


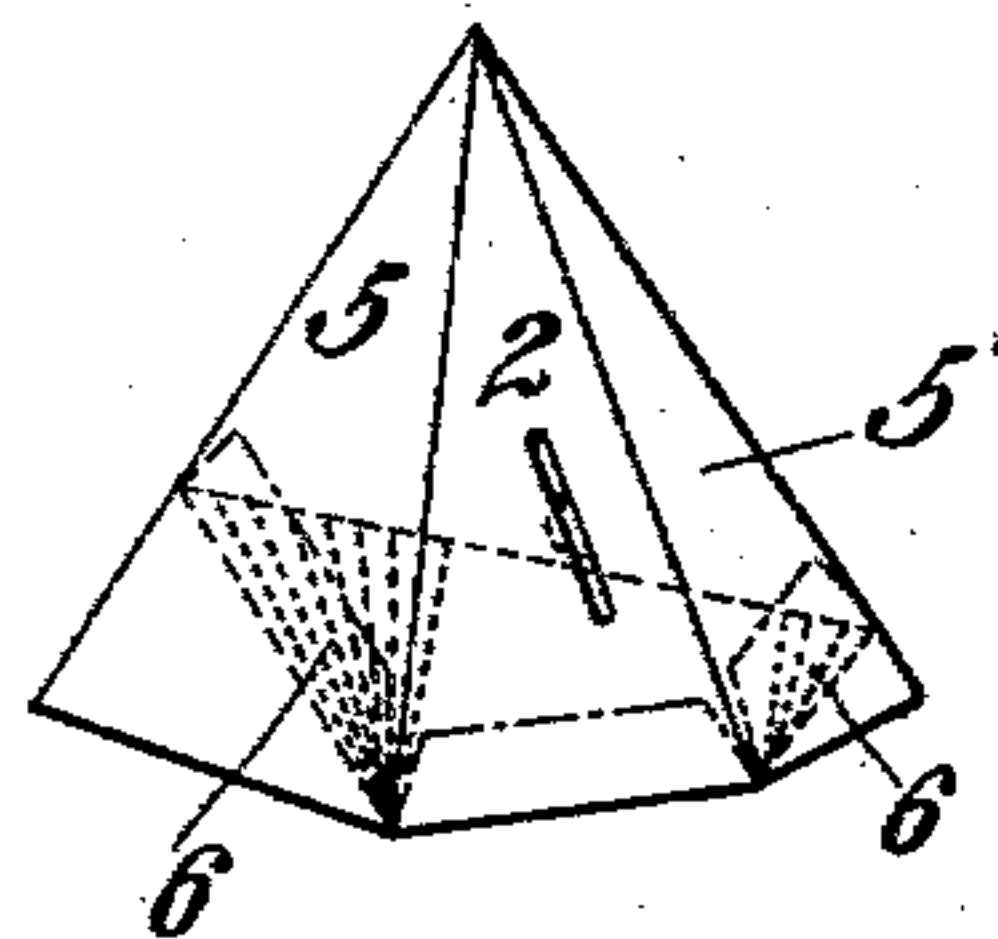
Fig. 22.



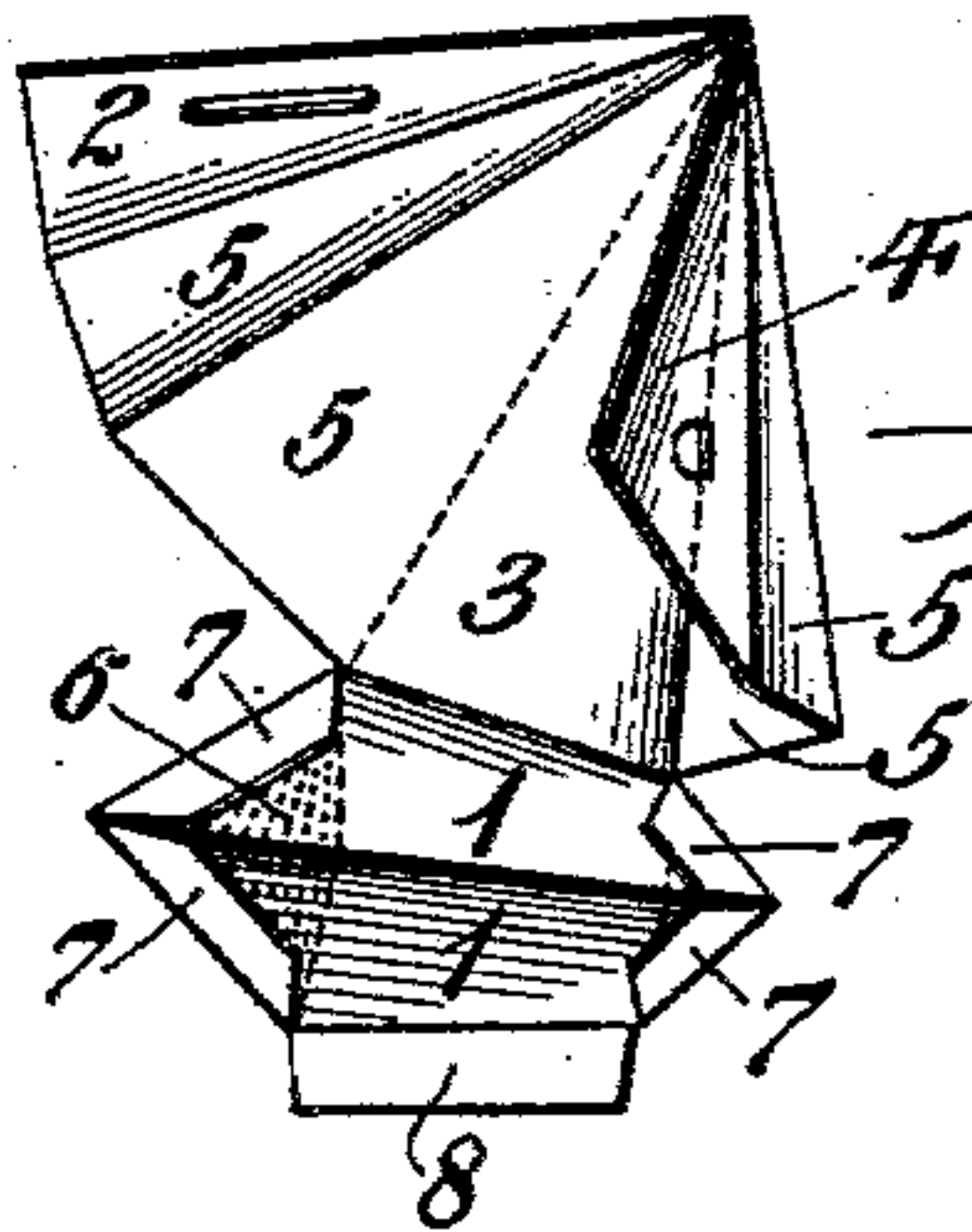
*fig. 24.*



*fig. 23.*



*fig. 25.*



Witnesses

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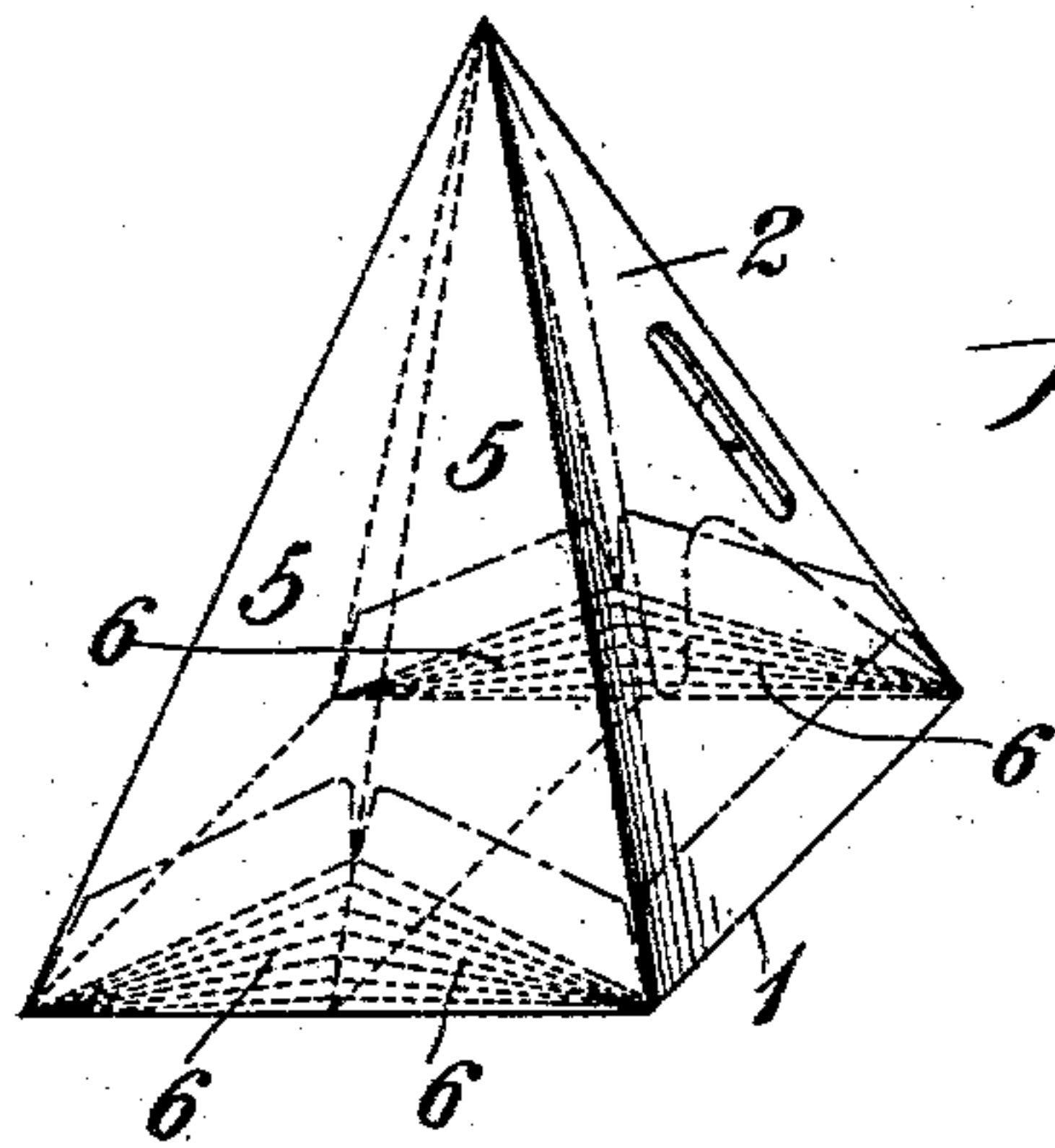
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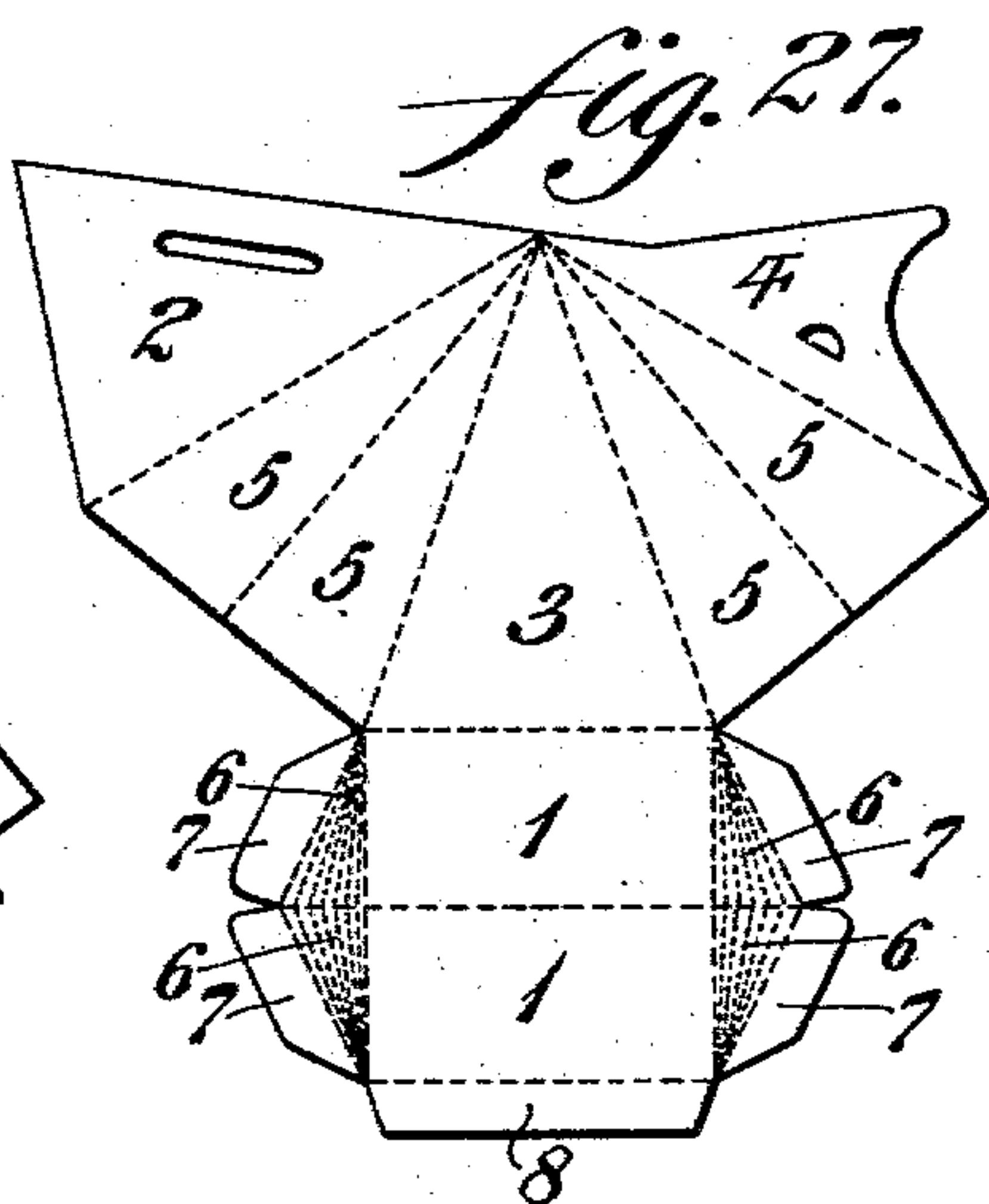
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7 SHEETS—SHEET 6.

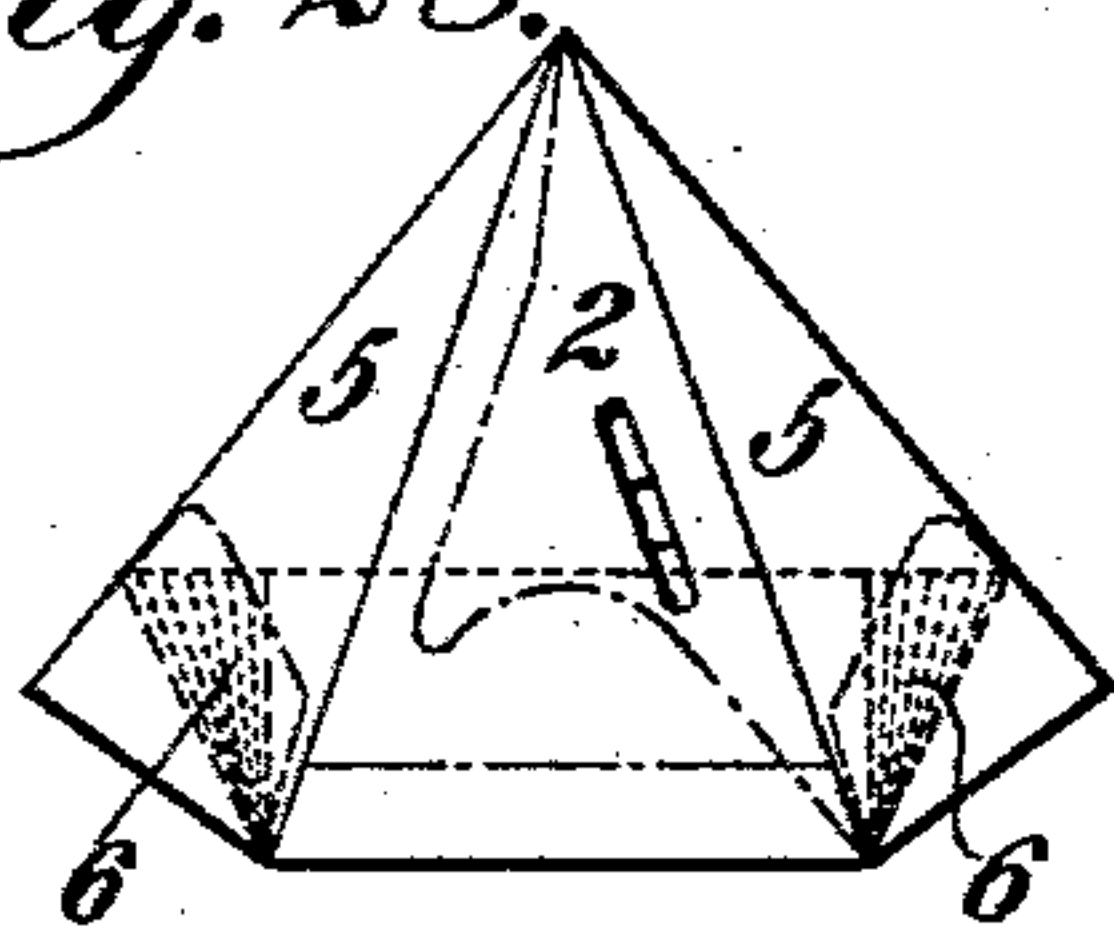


*fig. 26.*

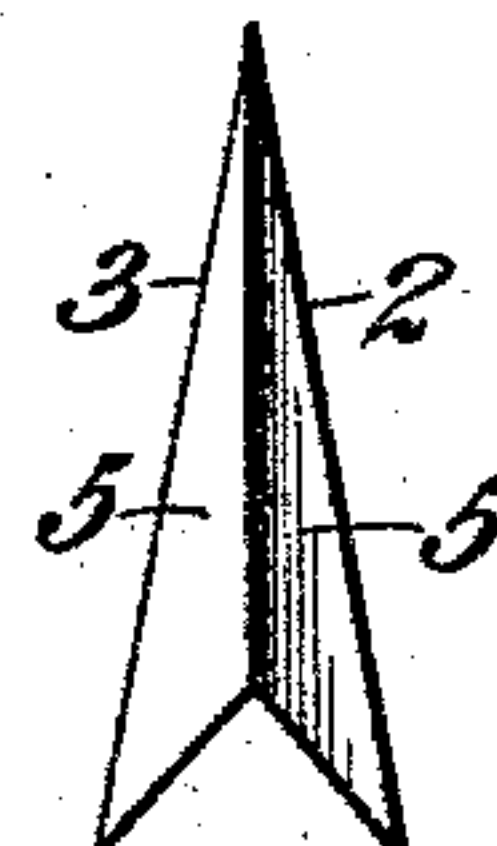


*fig. 27.*

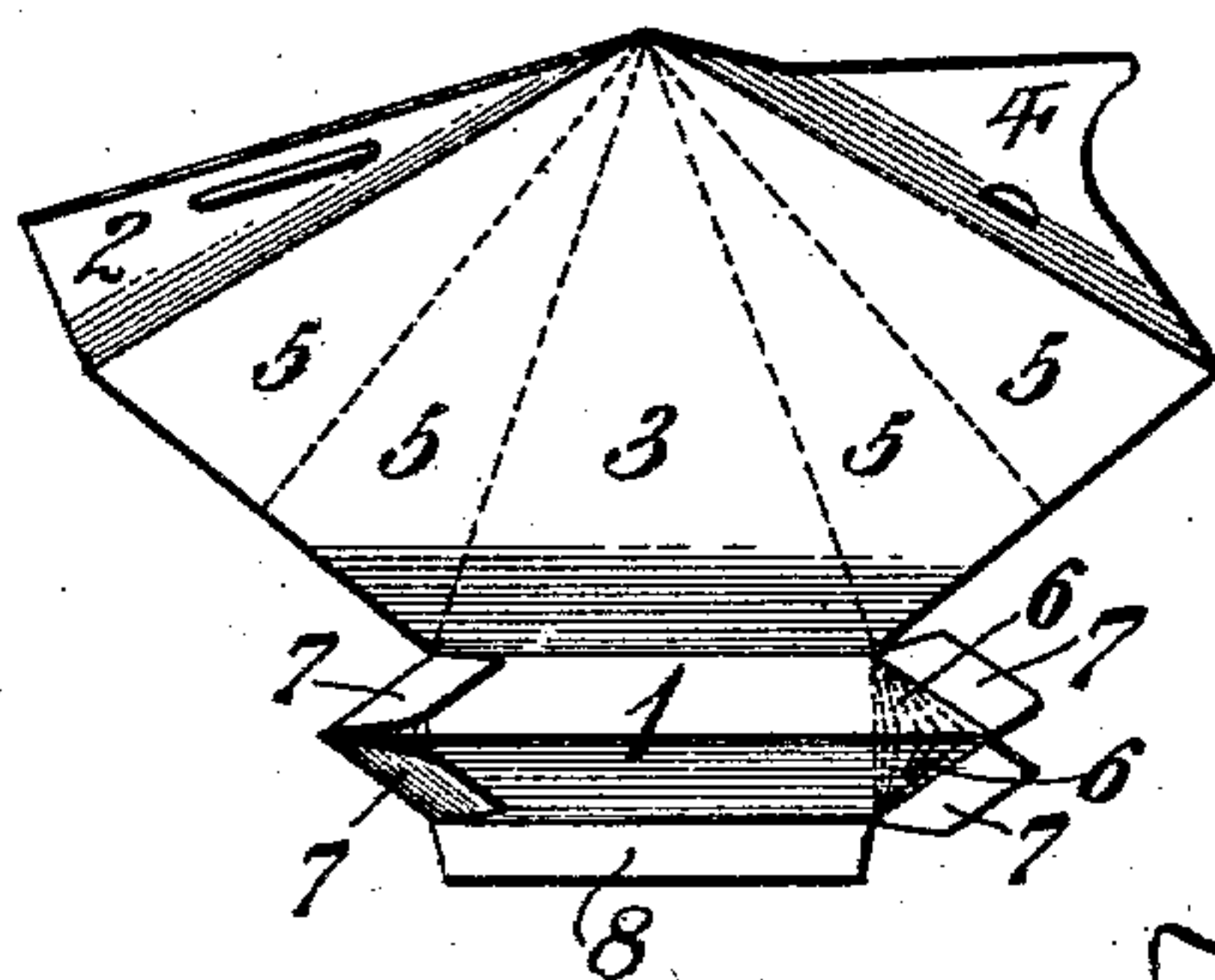
*fig. 28.*



*fig. 29.*



*fig. 30.*



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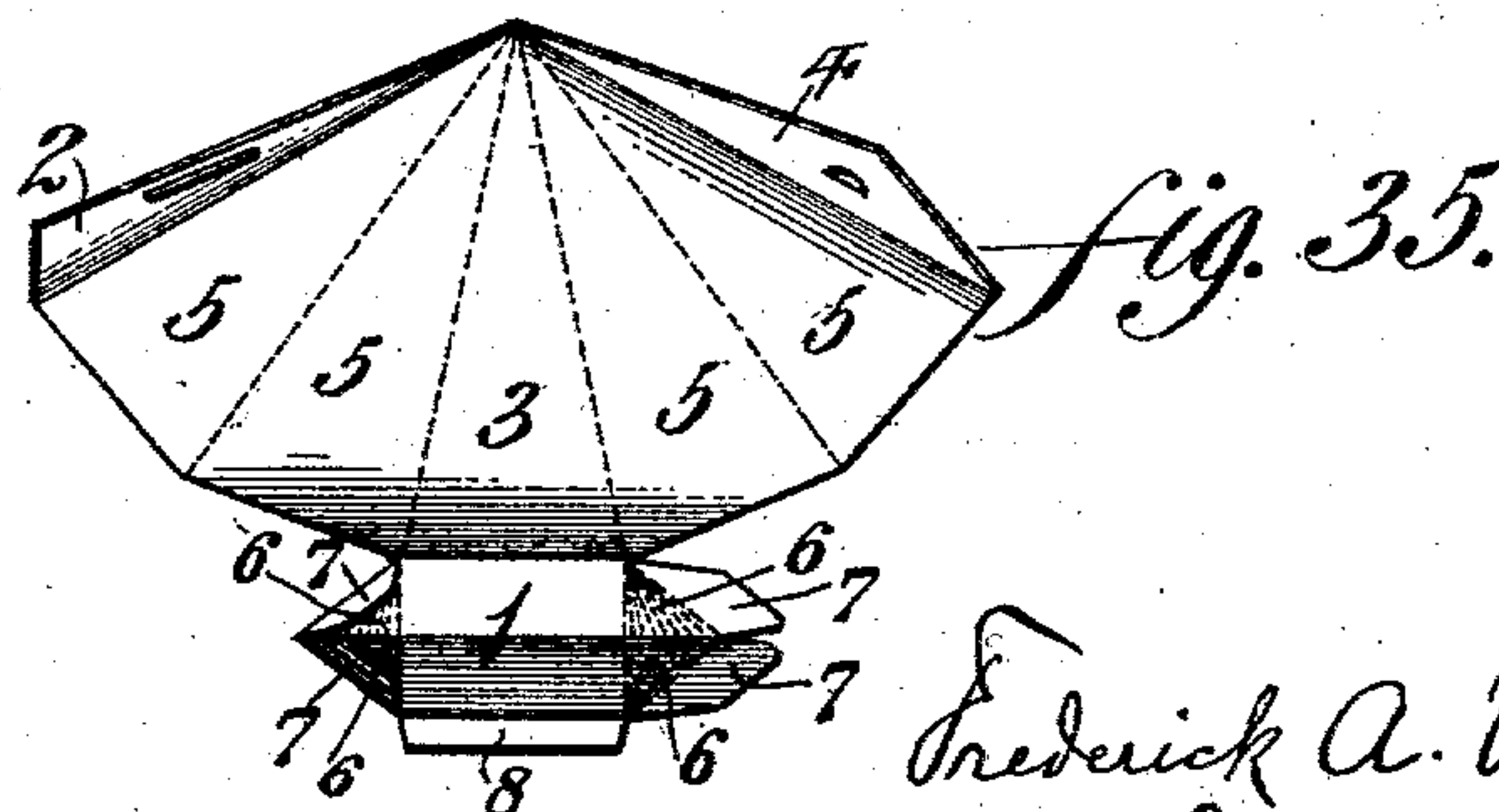
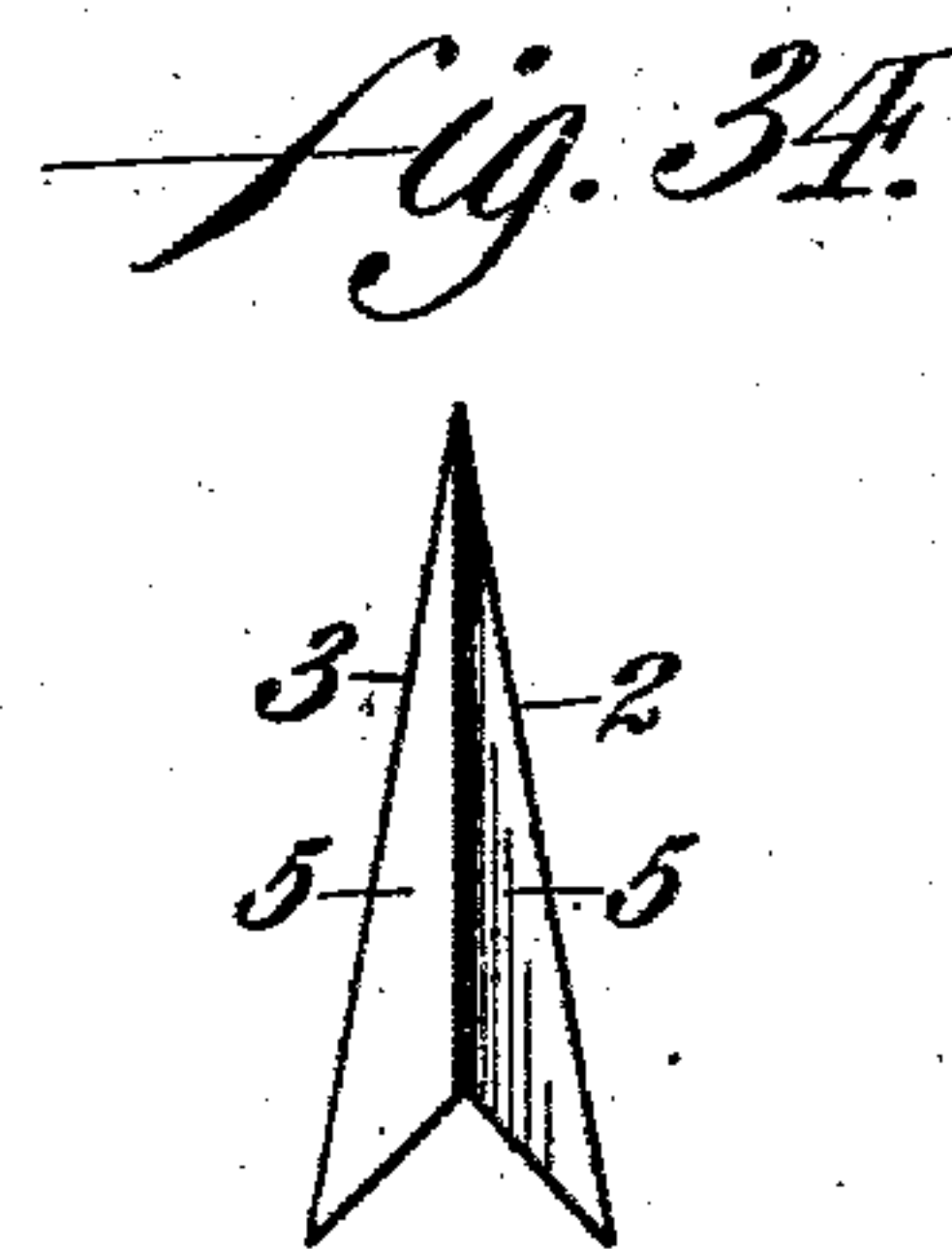
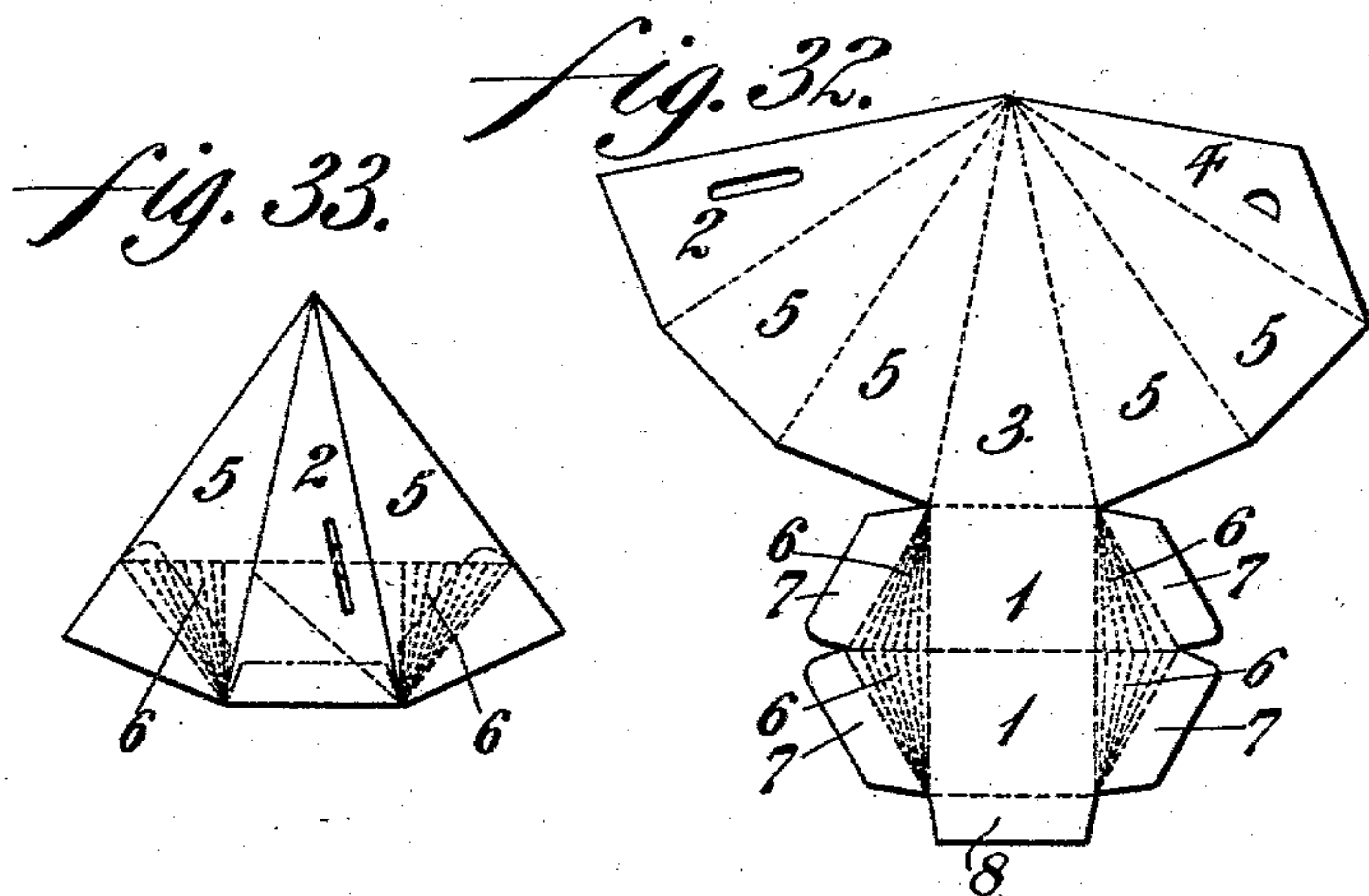
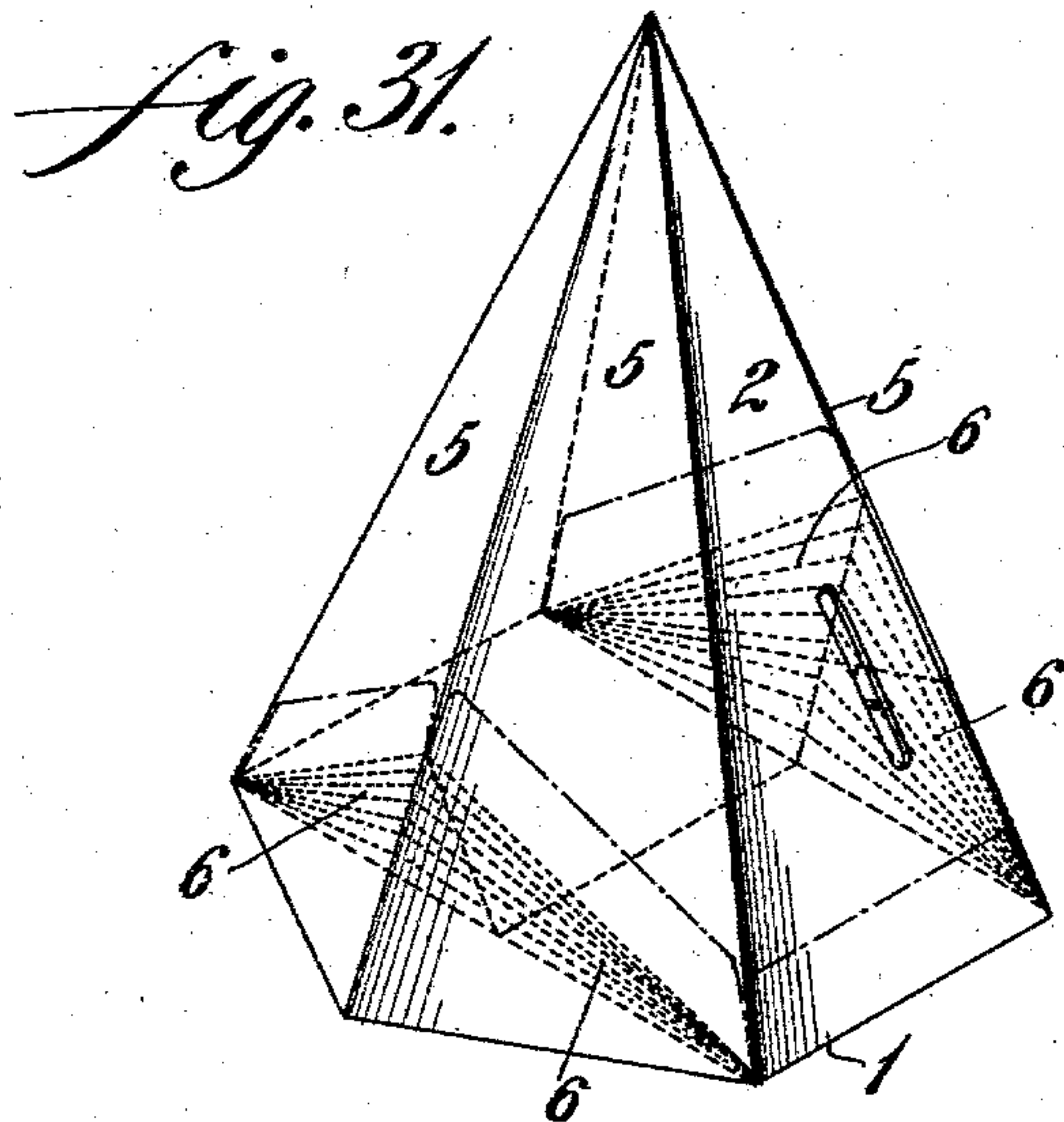
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NO MODEL.

7 SHEETS—SHEET 7.



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# UNITED STATES PATENT OFFICE.

FREDERICK A. WALTER, OF PHILADELPHIA, PENNSYLVANIA.

## SEALED FOLDING HOLLOW BODY.

SPECIFICATION forming part of Letters Patent No. 720,864, dated February 17, 1903.

Application filed October 2, 1902. Serial No. 125,680. (No model.)

*To all whom it may concern:*

Be it known that I, FREDERICK A. WALTER, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Sealed Folding Hollow Bodies, of which the following is a specification.

My invention relates to that class of sealed folding hollow bodies or receptacles which are intended for use in the systematic collections for missionary, Sunday-school, church, charitable, and other beneficent purposes, in which certain practical conditions must be combined to insure success—i. e., such a receptacle should be formed into a symmetrical or geometrical figure, such a receptacle or figure should stand erect without rocking or shaking, be strong and firm when in use, and should be so constructed that its contents cannot be shaken out or be readily extracted without some visible injury to the particular receptacle, the body or figure to be so constructed as to readily fold for shipment. All external surfaces must be freed from the usual disfigurement of scoring or creasing marks. The body must also be produced at a minimum cost and be so simple in construction and operation as to require no instructions concerning its use. Partial progress toward the realization of these aims and purposes was accomplished in my inventions of improvement in sealed folding hollow bodies described and claimed by me in Letters Patent of the United States No. 618,628, dated January 31, 1899. A still greater degree of improvement was attained in my invention of improvements in sealed folding hollow bodies described and claimed by me in Letters Patent of the United States No. 645,196, dated March 13, 1900. To attain a still higher degree of efficiency, increased utility, and economy of production is the object of my present invention, which consists in the novel features of construction and arrangement of parts, all as will be hereinafter fully described, and particularly pointed out in the claims.

Figure 1 represents a perspective view of a wedge or tent shaped sealed hollow body or receptacle, having concealed or screened from view a certain device contiguously integral with its base and supplemental thereto, em-

bodifying my invention. Fig. 2 represents the blank from which the body or receptacle is formed, the same being spread out, cut in an irregular form, and scored or creased as shown by the dotted lines. Fig. 3 represents in a side elevation the body or receptacle after having been constructed, sealed, and folded for transportation. Fig. 4 represents an end elevation of Fig. 3, which for clearer illustration is only partially folded. Fig. 5 represents a perspective view showing the body or receptacle in a partially-constructed state. Figs. 6 to 10, 11 to 15, 16 to 20, 21 to 25, 26 to 30, and 31 to 35 represent similar views to Figs. 1, 2, 3, 4, and 5, above described, showing substantially the same construction of body or receptacle.

Similar numerals of reference indicate corresponding parts in the figures.

Referring to the drawings, my invention will be best described by first referring to Figs. 1 to 5, inclusive, wherein Fig. 2 designates a blank of any suitable flexible material, cut into the irregular shape substantially as shown, also scored or creased, as indicated by the dotted lines, the scoring or creasing being accomplished by any suitable means, and being of such a character as to permit of the material being readily folded at the line so scored. In the blank, Fig. 2, 1 represents the base of the hollow body. 2 represents the front. 3 represents the back. 4 represents the internal guard. 5 represents the ends. 6 represents parts supplemental to the base and integral therewith. 7 and 8 represent gluing-strips, by means of which and the use of suitable adhesive material the sealing of the hollow body is accomplished. Contiguously integral with 1 and supplemental thereto are parts 6 6 6 6, containing certain scoring-marks radiating or diverging from points at oppositely-disposed corners of 1. Lengthwise through the middle of 1 is a scoring-mark extending from the extreme points of 6 to 6. The part from 6 through 7 is cut thus: when 1 is folded in the middle, 7 may be folded over onto 6. If now the blank be folded on the lines between 1 and 3 and 1 and 2, then 1 will rest on 3, and 7 and 6 will rest upon 5, nearest 3. Now fold 5 at the center through its triangle over 7 and 6 and 1. Now fold 4 over 8 and onto 3. Then complete



the sealing by folding 2 over 8 and 4, in which event the hole at 4 will bisect the opening at 2. To unfold this sealed hollow body or receptacle, 2 and 3 may be drawn apart or 5 and 5 may be pressed toward each other, or the body may be inflated by blowing into the money-opening at 2. The hole in 4 serves the purpose of a safety-valve or vent for the escape of air when the sealed hollow body is quickly folded flat.

Referring now to Figs. 6 to 10, inclusive, it will be found that the construction and relation of parts are substantially similar to the body described under Figs. 1 to 5, inclusive, except that in the present case the finished sealed hollow body when inflated shows the ends swelled out or protuberant. The said protuberances are produced by a surplus of material at 5 and a corresponding surplus at 6. The folding and assembling of parts are similar to the parts in Figs. 1 to 5 already referred to.

Referring now to Figs. 11 to 15, inclusive, it will be noticed that the several parts and their relations to each other, as also the general construction, are similar to that described under Figs. 1 to 5, inclusive, except that in the present case the finished sealed hollow body when inflated shows the ends swelled out or protuberant, as in the case of Figs. 6 to 10, just described, and that the said protuberances are surmounted by a fin or webbed edge 9.

Referring now to Figs. 16 to 20, the relation of parts to each other is slightly changed, due to the change in form from a rectangular-tent form and a rectangular-tented protuberant form to a triangular-pyramid form. The parts numbered 1, 2, 3, 4, 6, 7, and 8 perform similar functions, as in the forms already described. The seeming exception is noted in the triangular end 5 5, there being only one triangular end in this form, whereas in the case of the preceding rectangular-tented forms there are two triangular ends, with this exception: The manipulation and assembling of parts are similar to those described under Figs. 1 to 5 of previous reference.

Referring now to Figs. 21 to 25, the geometrical body here shown represents a pentagonal pyramid having five equal sides constructed upon an irregular polygon base. Said base is supplemented by certain triangular parts (marked 6) for the purpose of performing similar functions, as are described under Figs. 1 to 5. The several parts numbered from 1 to 8 perform similar functions as are described under Figs. 1 to 5 and 16 to 20. The parts 2 and 8 have for convenience in manufacture been transposed.

Referring now to Figs. 26 to 30, we have again a rectangular body; but instead of a tented form it is pyramidal. The relations of the several parts are, however, similar to those already described. The parts 2 and 8 have, for convenience in manufacture been transposed. The folding and assembling of parts

are similar to those described under Figs. 1 to 5 and 21 to 25.

Referring now to Figs. 31 to 35, we have a hexagonal pyramid of unique construction. It is, in fact, a rectangular pyramid similar in construction to Figs. 26 to 30, just described. With the exception that the ends marked 5 are swelled out or protuberant, care has been taken to make the protuberances equilateral with the front 2 and the back 3, thus producing an equilateral hexagonal pyramid constructed upon a rectangular base. The folding and assembling of parts are similar to those already described under the several preceding figures.

The several parts marked 6, in the several forms, described and designated as "certain triangles contiguously integral with the base and supplemental thereto," when properly creased or scored, as indicated in the several blanks shown, permit a ready and convenient method of folding and unfolding of the sealed hollow body of which it is a part. Said supplemental parts of said base in the inflated sealed hollow body diverge in all cases from the said base of the particular body or receptacle where employed at a suitable angle in the interior of said body or receptacle. The scoring or creasing marks of said supplemental parts are in all cases hidden or screened from view by the ends marked 5, to which they are attached by means of the gluing-strips marked 7.

The protuberances hereinabove referred to may be produced in any convenient manner, principally by a surplus of material over and above that which is necessary to make the said triangular ends form an even plane when the hollow body is inflated.

In view of the several geometrical forms of hollow bodies or receptacles shown it will be obvious that my invention may with equally satisfactory results be applied to any one of the following-named geometrical forms or hollow bodies, to wit: a triangular pyramid; a rectangular pyramid, whose base may be either a square or a parallelogram; a pentagonal pyramid; a hexagonal pyramid, or any pyramidal polygon of regular form of even or uneven number of sides; a tent or wedge form with a base either a square or a parallelogram with plain triangular ends or protuberant triangular ends; a tent or wedge form, whose base may be either a rhombus or a rhomboid, having either plain triangular ends or protuberant triangular ends.

It will thus be seen that my invention provides, in a unique and simplified manner, a sealed folding hollow body or receptacle which is particularly well adapted for the purposes intended and which is so arranged that its contents when once inserted cannot be easily extracted by shaking or otherwise, whose means for folding or unfolding for transportation and use, respectively, are both simple and unique, and although I have shown only seven forms it is obvious other forms



may be designed. I therefore reserve the right to make such changes and alterations as may be held to come within the spirit and scope of my invention.

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

1. In a blank composed of one piece of suitable flexible material to be formed and folded  
10 into a tent or pyramid-shaped hollow body, being suitably cut scored or creased to form any one of the several forms described, having not more than two surfaces of the external surfaces forming the body contiguously integral  
15 with the surface forming the base of any one of the forms described, having in a certain triangular part of a surface or surfaces contiguously integral with the surface forming the base and supplemental thereto, scores or  
20 creases diverging from points at oppositely-disposed corners of said surface or base converging toward each other upon a central scoring-line common to all, contiguously integral with the said triangular part supplemental to the base are gluing-strips capable  
25 of being fastened to the interior surface of certain parts forming the external surfaces of the body containing in one of the surfaces of said blank a certain coin-opening and in another surface a suitable vent-hole, said coin-opening and vent-hole are made to bisect  
30 each other when said blank is folded into the form of a hollow body.

2. A sealed folding tent or pyramid-shaped  
35 hollow body or receptacle made of one piece of suitable flexible material being cut and scored or creased as described, having in the inflated body in a certain part of a surface or surfaces, contiguously integral with the surface forming its base and supplemental thereto, scores or creases diverging from points at  
40 oppositely-disposed corners of said surface or base converging toward each other upon a central scoring-line common to all, concealed or screened by an external surface or surfaces of said hollow body, said supplemental part of  
45 said base diverges from said base at a suitable angle in the interior of said body or receptacle, said receptacle containing a suitable opening through which ingress of coin or other material may be had, lying under said opening is an internal guard, said guard containing a  
50 suitable vent-hole bisecting said opening.

3. A sealed folding tent or wedge-shaped  
55 hollow body or receptacle made of one piece and any kind of suitable flexible material being cut and scored as described, having when inflated, two plain triangular surfaces or ends, two rectangular sides or surfaces and a rectangular base or surface having in a certain  
60 part of the surface or surfaces contiguously integral with the surface forming the base and supplemental thereto, scores or creases diverging from points at oppositely-disposed corners of said base converging toward each other  
65 upon a central scoring-line common to all, concealed or screened by the external triangular

surfaces or ends of said hollow body, said supplemental parts of said base diverge from said base at a suitable angle in the interior of said  
70 body or receptacle, said receptacle containing a suitable opening through which ingress of coin or other articles may be had, lying under said opening is an internal guard containing a suitable vent-hole bisecting said opening. 75

4. A sealed folding wedge or tent shaped hollow body or receptacle made of one piece of any suitable flexible material being cut and scored as described, having when inflated, two rectangular sides or surfaces and two protuberances or ends producing four several triangular surfaces and a rectangular base or surface, having in a certain part of the surface or surfaces contiguously integral with the surface forming the said base and supplemental thereto, scores or creases diverging  
80 from points at oppositely-disposed corners of said base converging toward each other upon a central scoring-line common to all, concealed or screened by the said protuberances of the several triangular surfaces or ends, said supplemental parts of said base diverge from  
85 said base at a suitable angle in the interior of said body or receptacle, said receptacle containing a suitable opening through which ingress of coin or other materials may be passed, lying under said opening is an internal guard, said guard containing a suitable vent-hole bisecting said opening. 90

5. A sealed folding tent or wedge-shaped  
100 hollow body or receptacle made of one piece of suitable flexible material being cut and scored as described, having when inflated, two rectangular sides or surfaces, two opposite ends of said body being protuberant, said protuberances being each surmounted by a fin or webbed edge, said protuberant ends exhibiting each two several triangular surfaces having a rectangular base or surface supplemented by certain triangular surfaces contiguously integral with the surface forming  
105 the said base, containing scores or creases diverging from points at oppositely-disposed corners of said base converging toward each other upon a central line common to all, hidden or concealed by the said triangular surfaces forming the said protuberances, said triangular surfaces supplemental to said base, diverge from said base at suitable angles in the interior of said body or receptacle, said receptacle containing a suitable opening through  
110 which ingress of coin or other articles may be passed, lying under said opening is an internal guard, said guard containing a suitable vent-hole bisecting said opening. 115

6. A sealed folding pyramid-shaped hollow body or receptacle made of one piece of suitable flexible material being cut and scored as described, having when inflated, four several external triangular surfaces, the triangular  
120 surface constituting the base of said receptacle has in a certain part of a triangular surface contiguously integral with the said base and supplemental thereto, scores or creases  
125

130



diverging from points at oppositely-disposed corners of said base converging toward each other upon a central scoring-line common to all, concealed or screened by an external triangular surface, said triangular surface supplemental to said base diverges at a suitable angle in the interior of said body or receptacle, said receptacle containing a suitable opening through which ingress of coin or other articles may be passed, lying under said opening in an internal guard, said guard containing a suitable vent-hole bisecting said opening.

7. A sealed folding pyramid-shaped hollow body or receptacle made of one piece of suitable flexible material being cut and scored as described, having when inflated, five several external triangular sides or surfaces, the surface forming the base of said receptacle constitutes an irregular polygon and is supplemented by certain triangular surfaces contiguously integral with the surface forming the said base, said supplemental triangular surfaces having scores or creases diverging from points at oppositely-disposed corners of said base converging toward each other upon a central scoring-line common to all, the creasing or scoring in said triangular surfaces supplemental to said base being concealed or screened by oppositely-disposed triangular sides or surfaces, said supplemental parts of said base diverge from said base at suitable angles in the interior of said body or receptacle, said receptacle containing a suitable opening through which ingress of coin or other articles may be passed, lying under said opening is an internal guard, said guard containing a suitable vent-hole bisecting said opening.

8. A sealed folding pyramid-shaped hollow body or receptacle made of one piece of suitable flexible material being cut and scored as described, having when inflated, four several external triangular sides or surfaces, and a rectangular base or surface, supplemented by certain triangular surfaces contiguously integral with the surface forming the said base,

said supplemented surfaces containing scores or creases diverging from points at oppositely-disposed corners of said base converging toward each other upon a central scoring-line common to all, screened or concealed by two oppositely-disposed external sides or surfaces, said triangular surfaces supplemental to said base diverge from said base at suitable angles in the interior of said body or receptacle, said receptacle containing a suitable opening through which ingress of coin or other substances may be passed, lying under said opening is an internal guard, said guard containing a suitable vent-hole bisecting said opening.

9. A sealed folding pyramid-shaped hollow body or receptacle made of one piece of suitable flexible material being cut and scored as described, presenting to view when inflated a hexagonal base outline together with six external triangular surfaces or sides, the surface forming the base of said receptacle constitutes a rectangle and is supplemented by certain triangular surfaces contiguously integral with the surface forming the said base, said supplemental triangular surfaces having scores or creases diverging from points at oppositely-disposed corners of said base converging toward each other upon a central scoring-line common to all, the creasing or scoring in said triangular surfaces supplemental to said base being concealed or screened by oppositely-disposed triangular sides or surfaces, said supplemental parts of said base diverge from said base at suitable angles in the interior of said body or receptacle, said receptacle containing a suitable opening through which ingress of coin or other articles may be passed, lying under said opening is an internal guard, said guard containing a suitable vent-hole bisecting said opening.

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Witnesses:

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