

No. 863,178.

PATENTED AUG. 13, 1907.

W. O. HOLT & R. L. FOSTER.

LAMP SHADE.

APPLICATION FILED JAN. 11, 1907.

2 SHEETS—SHEET 1.

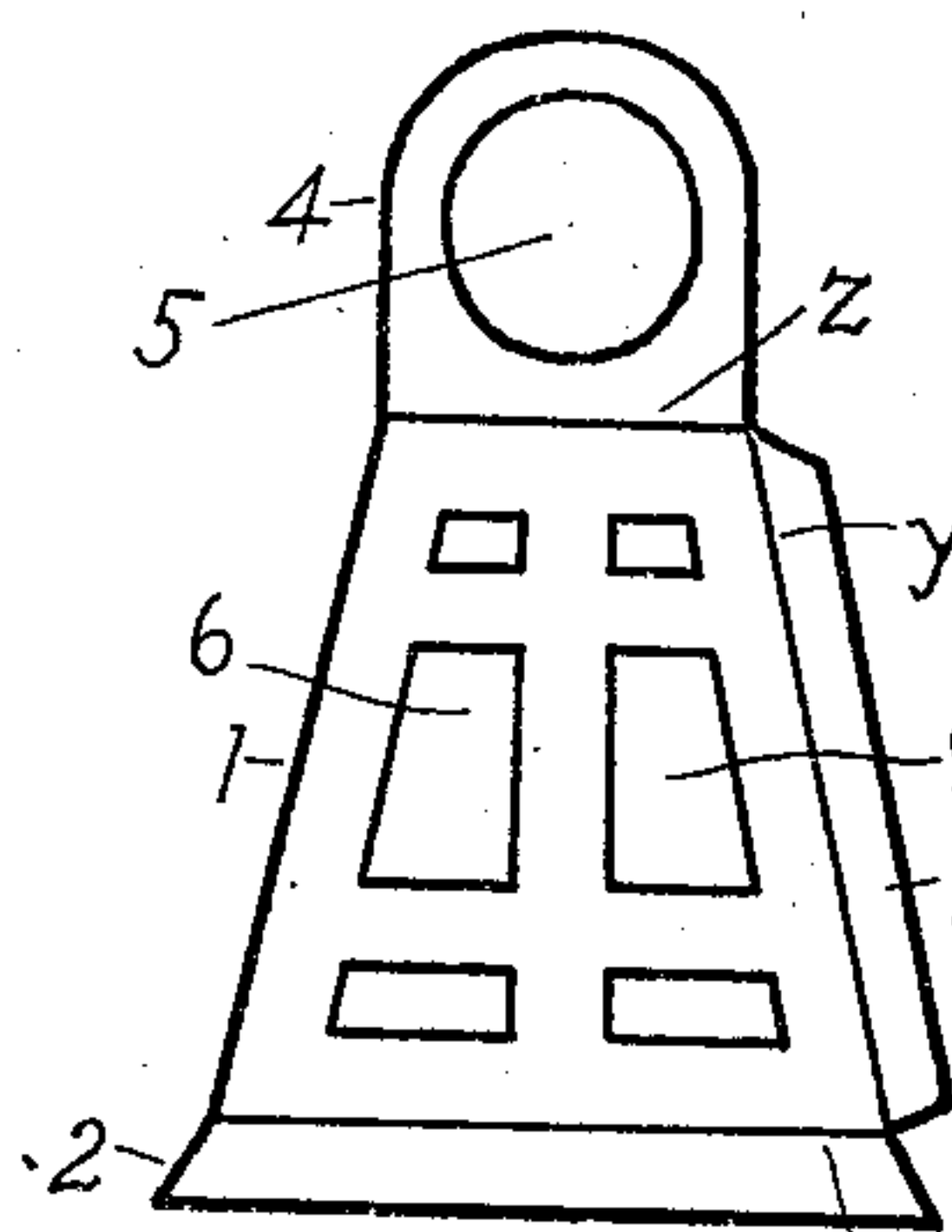


FIG. 1.

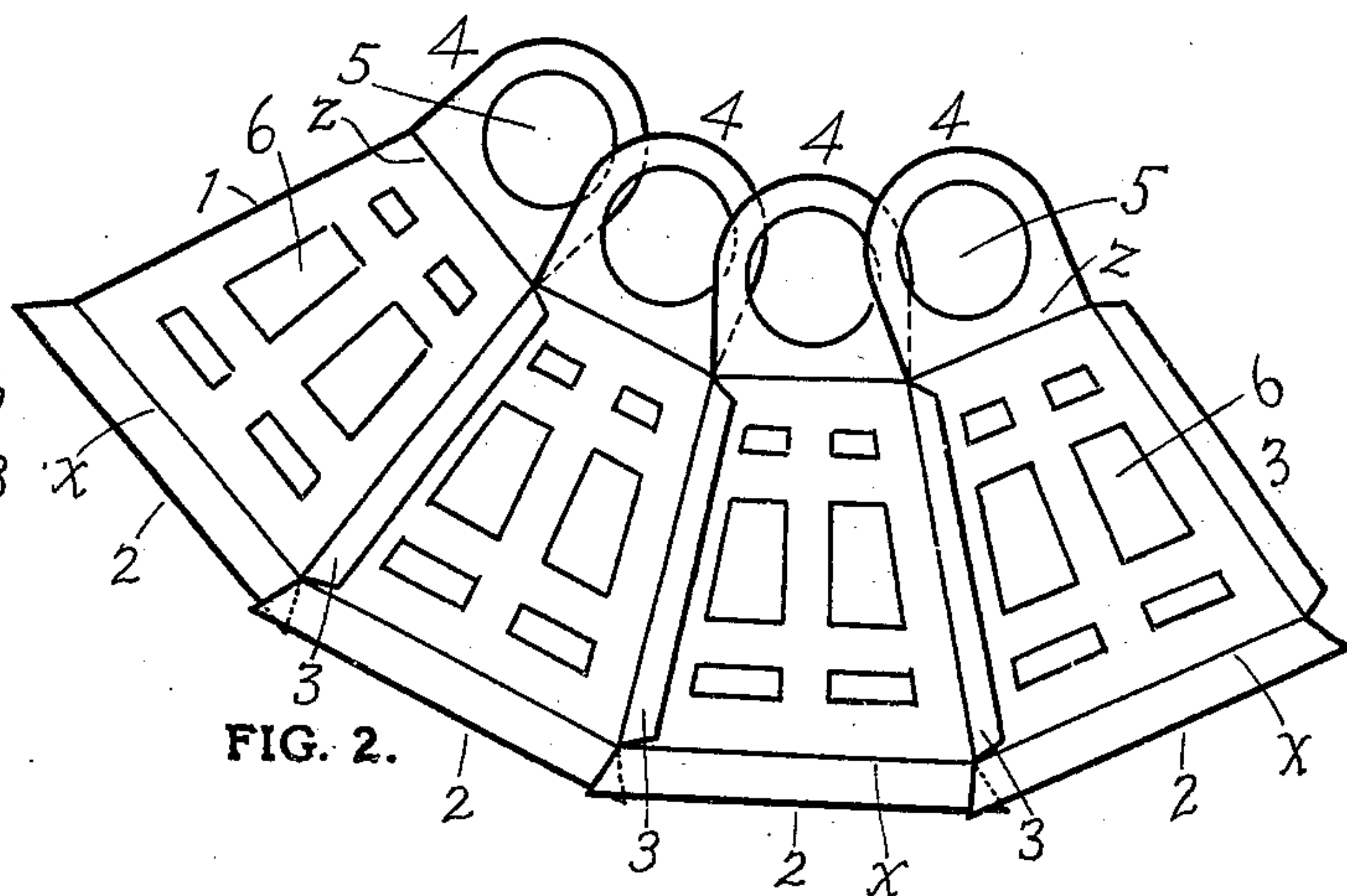


FIG. 2.

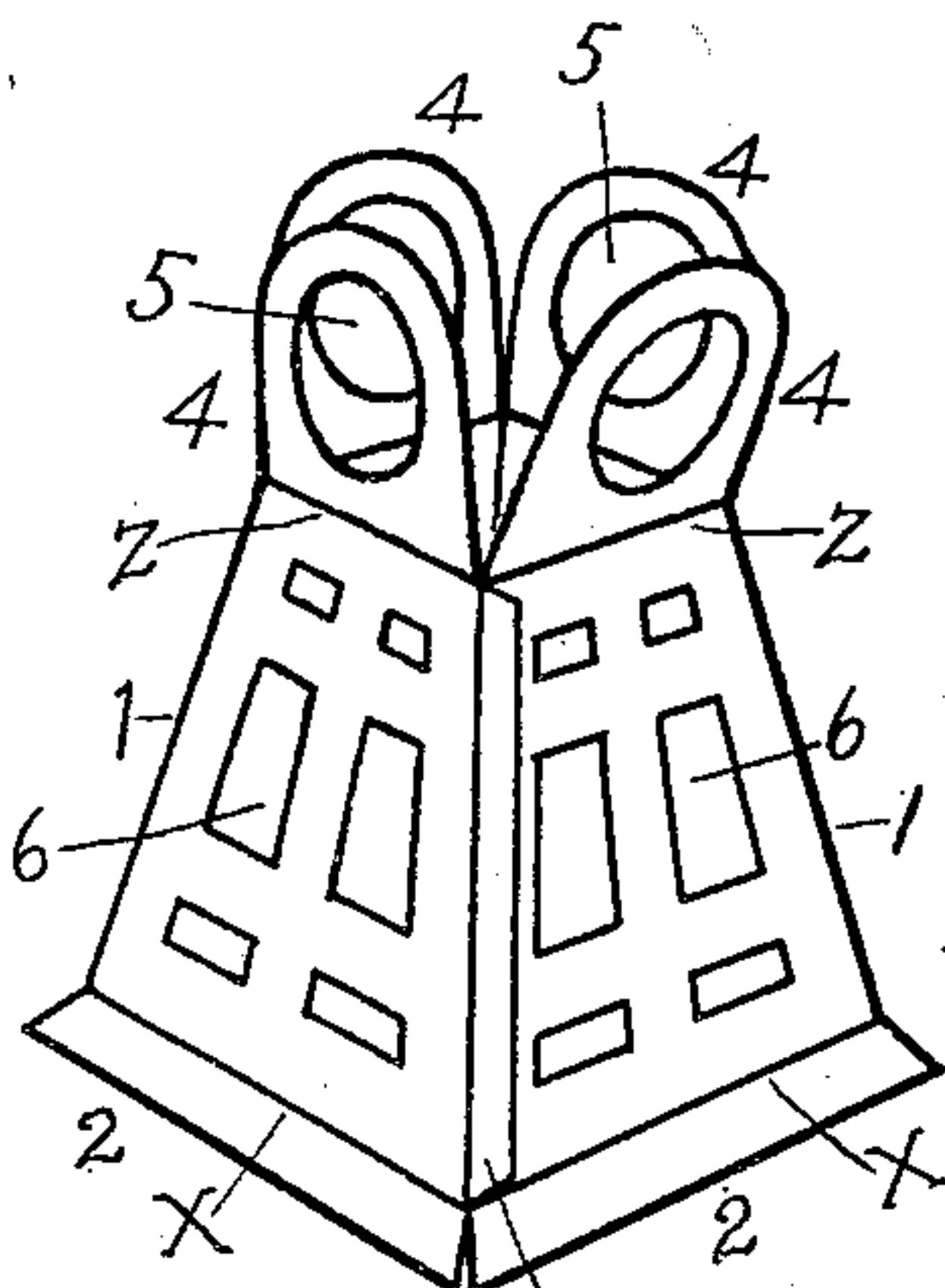


FIG. 3.

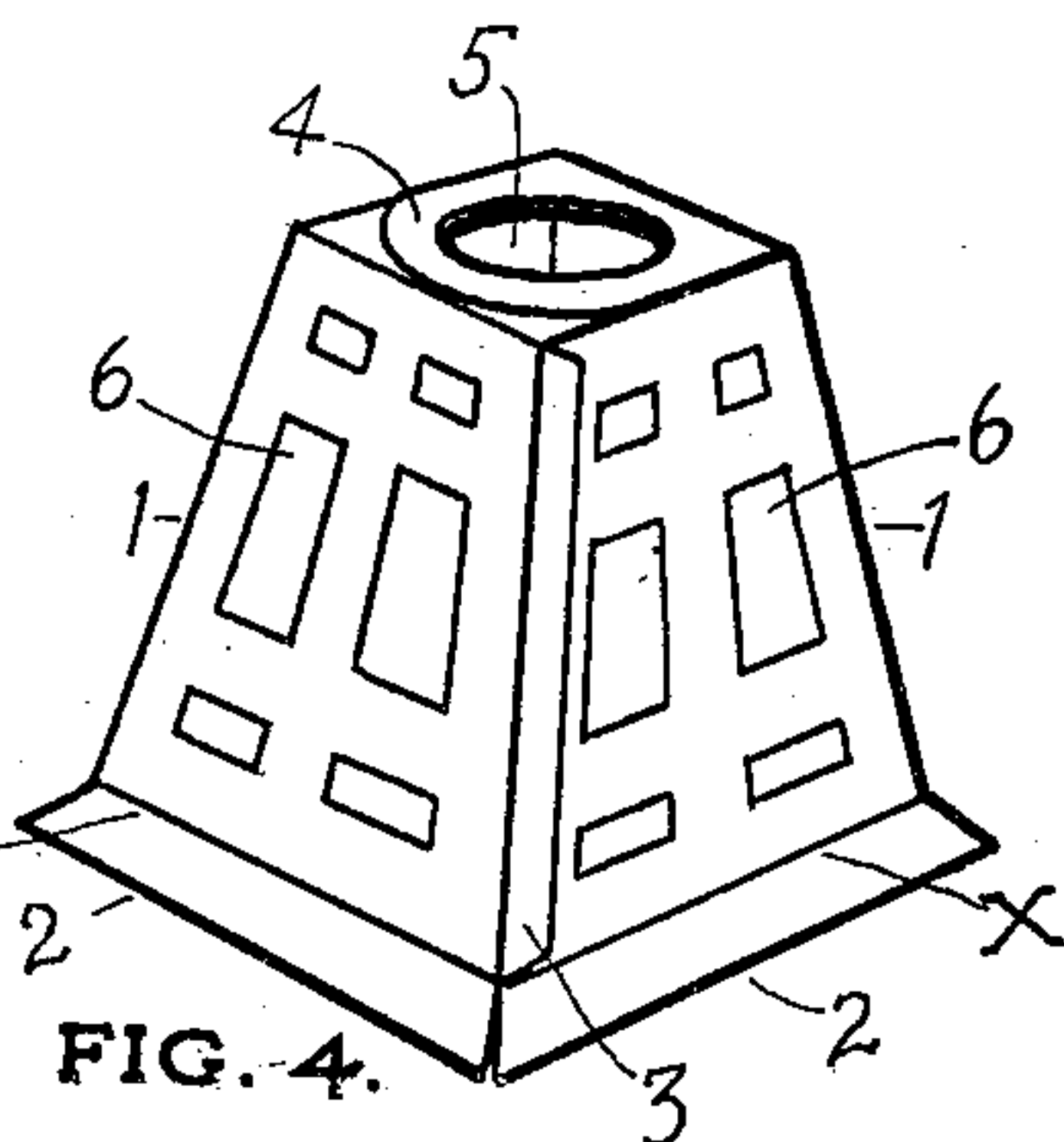


FIG. 4.

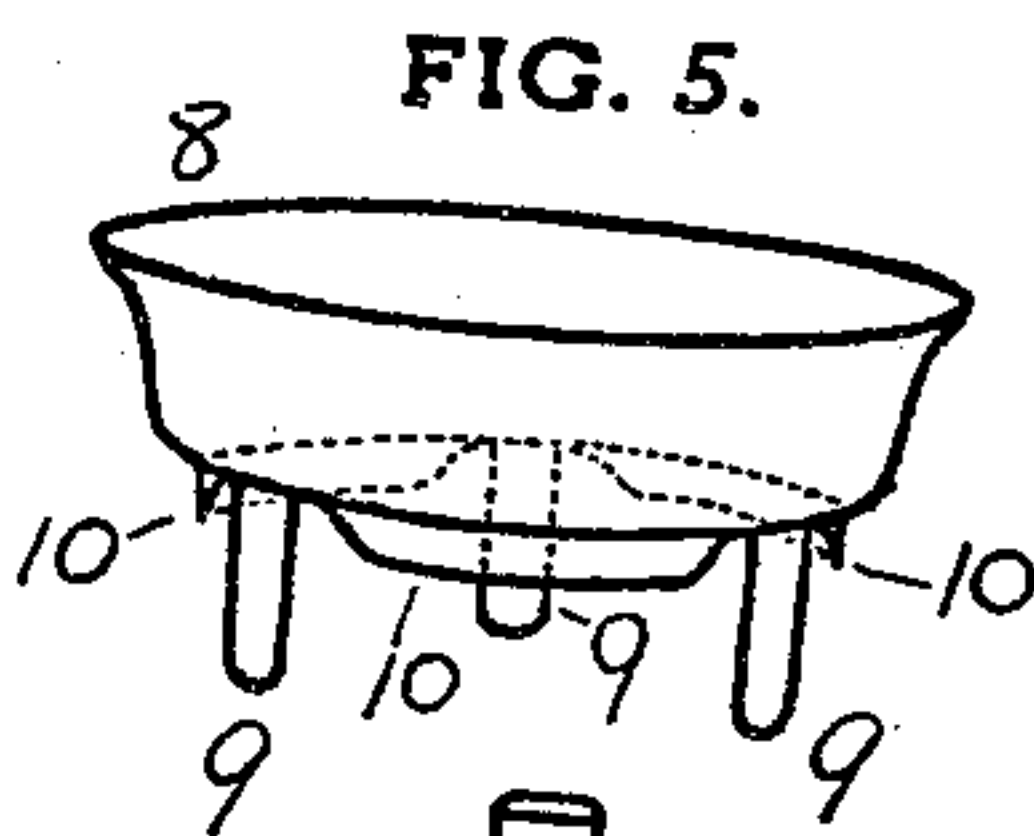


FIG. 5.

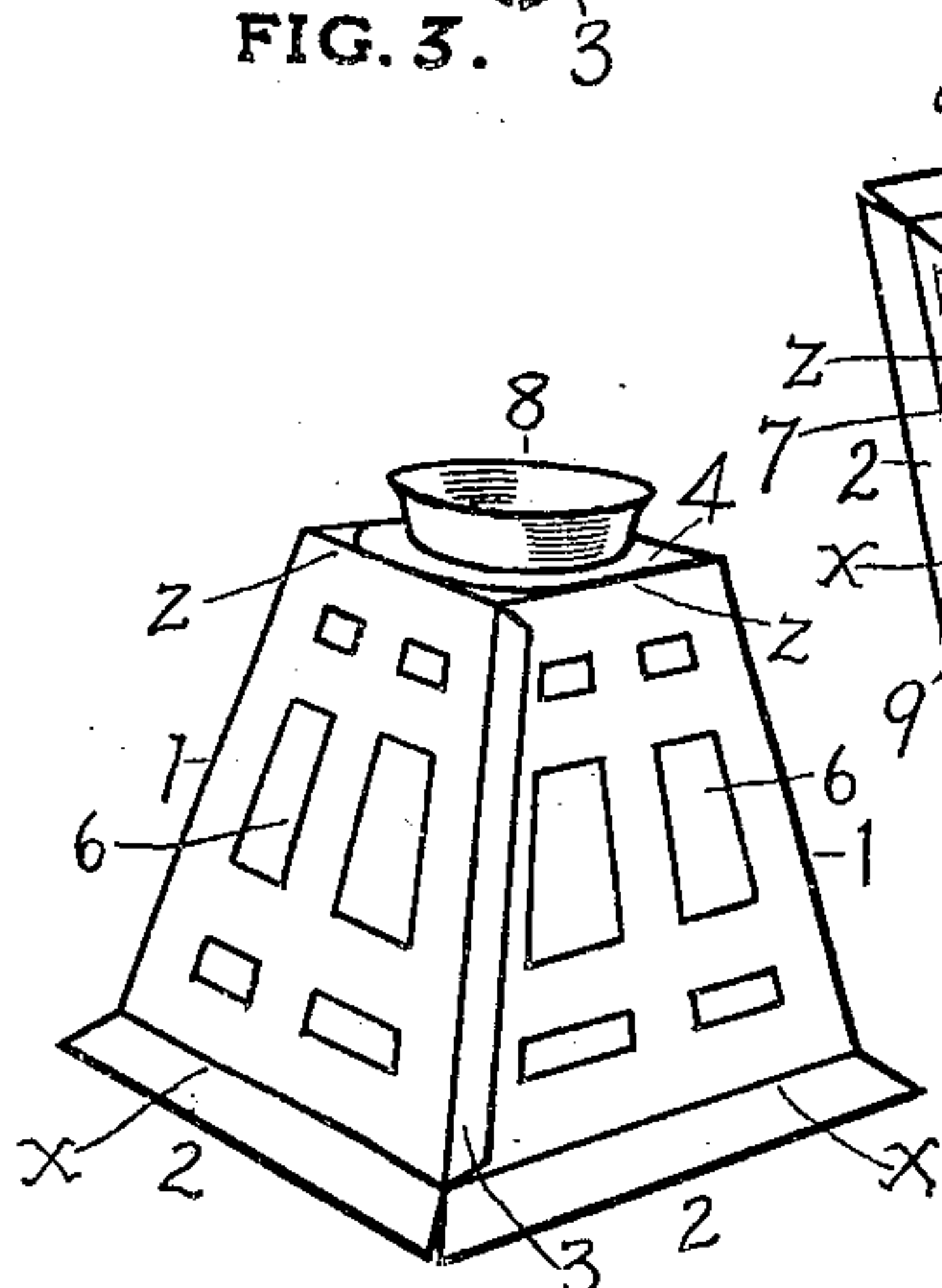


FIG. 6.

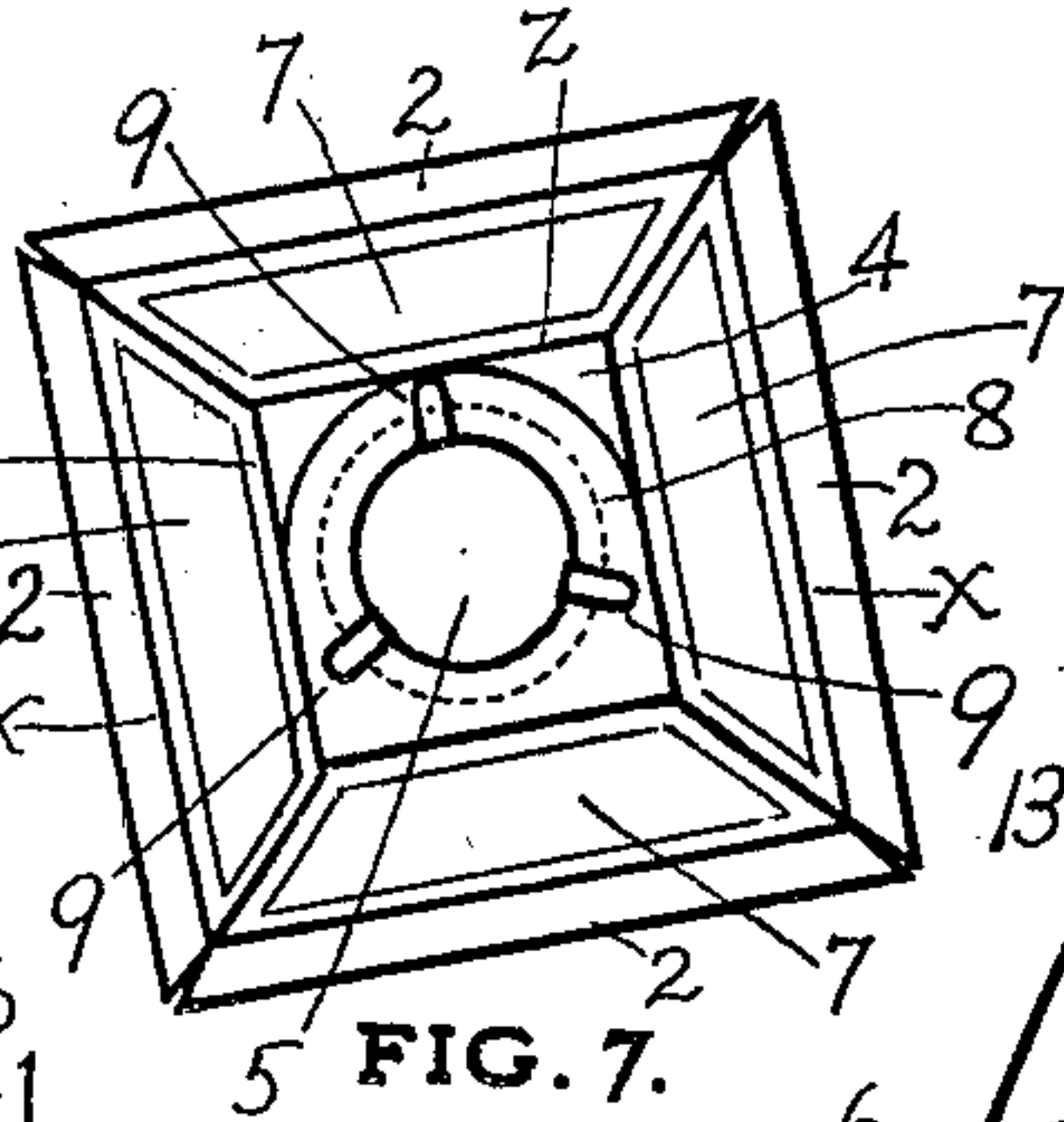


FIG. 7.

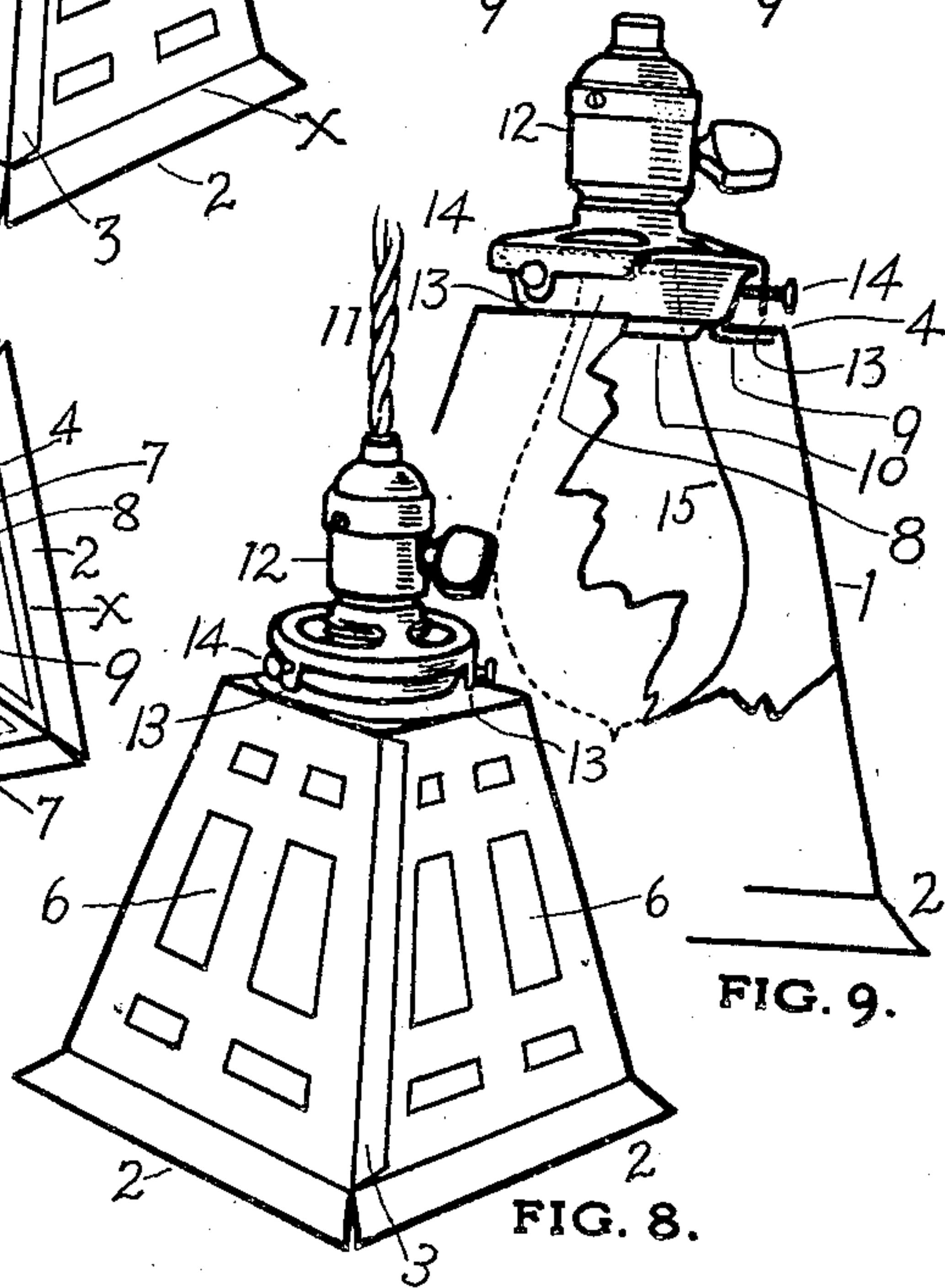


FIG. 8.

FIG. 9.

WITNESS

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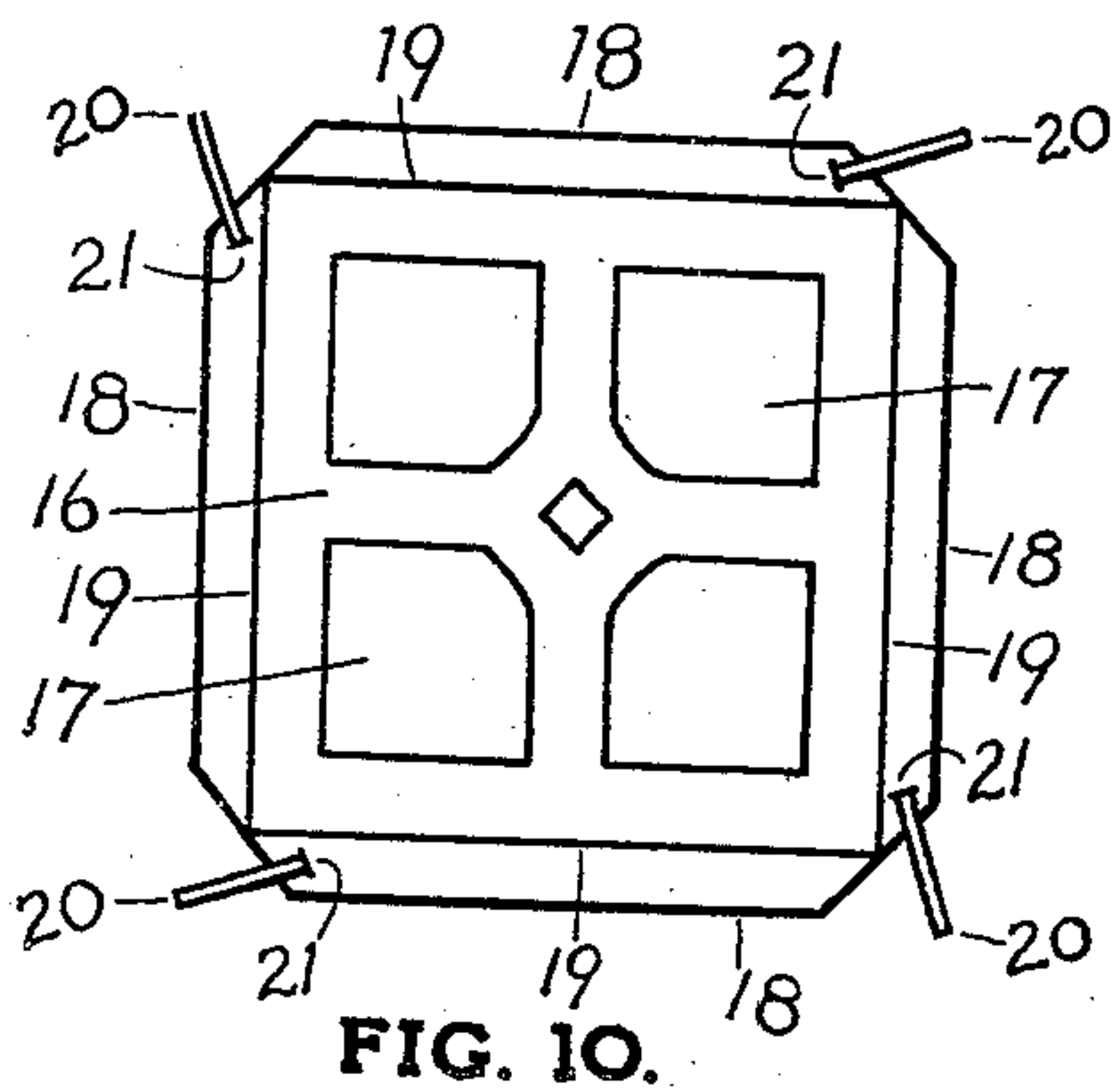


FIG. 10.

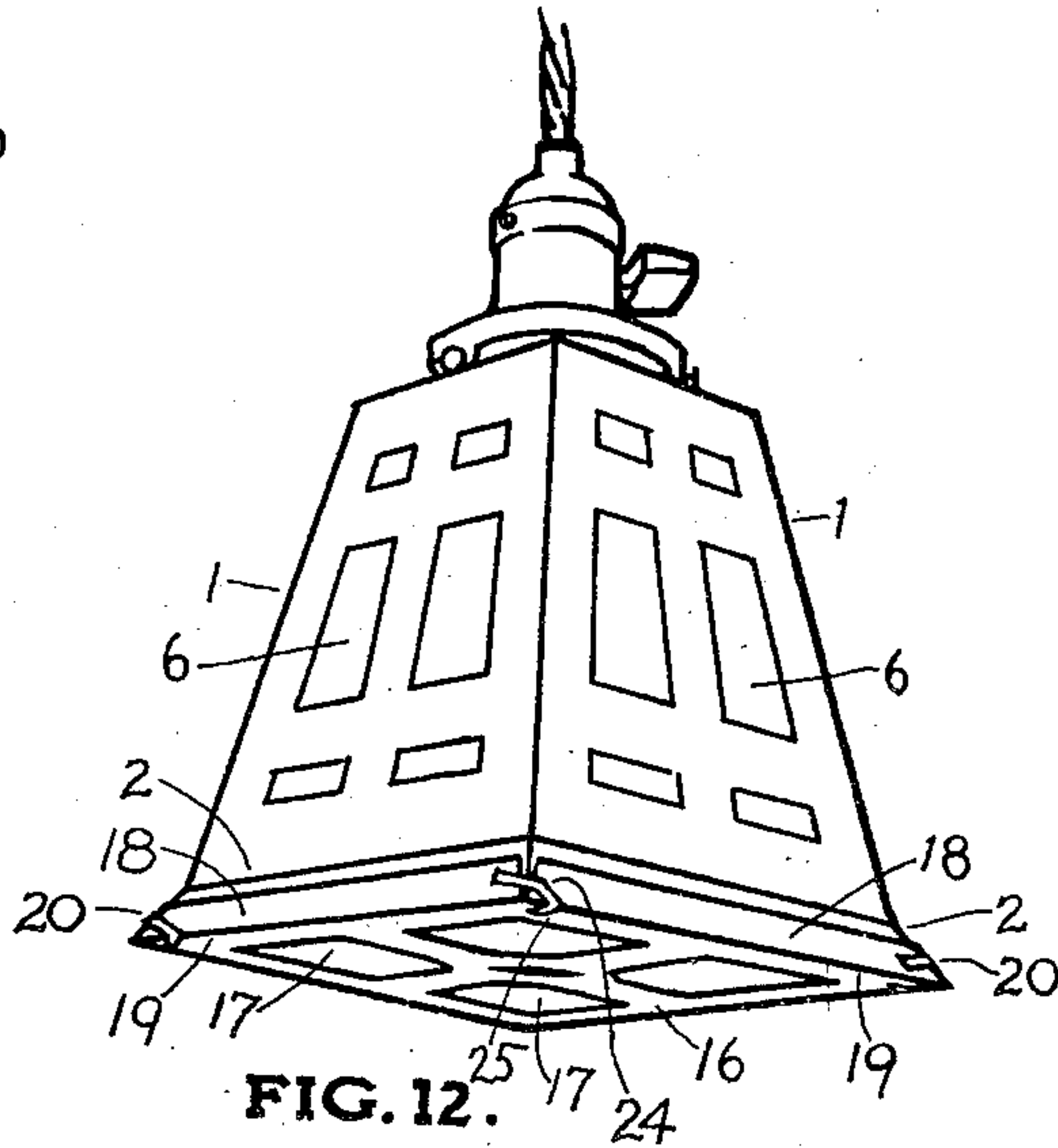


FIG. 12.

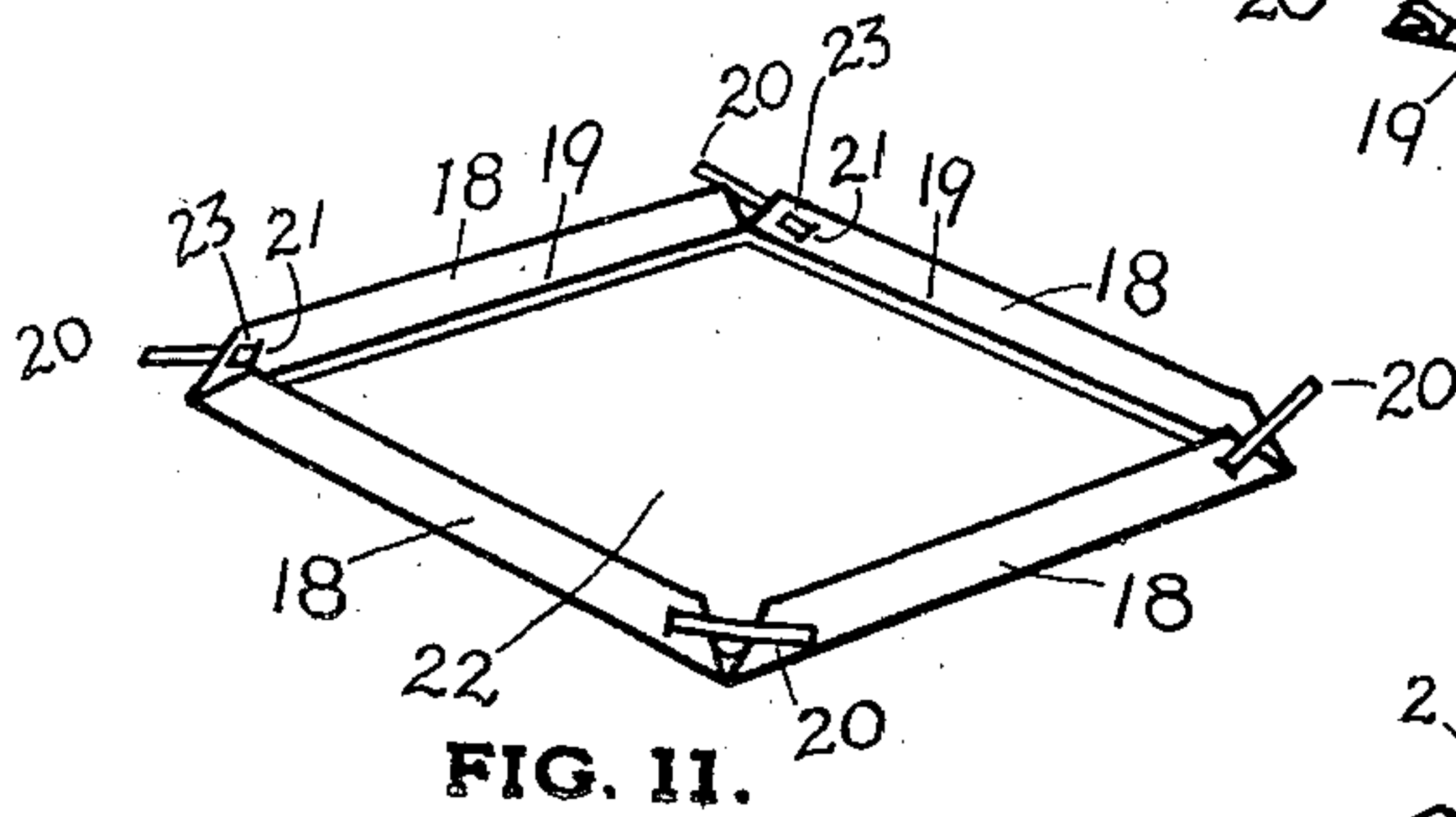


FIG. 11.

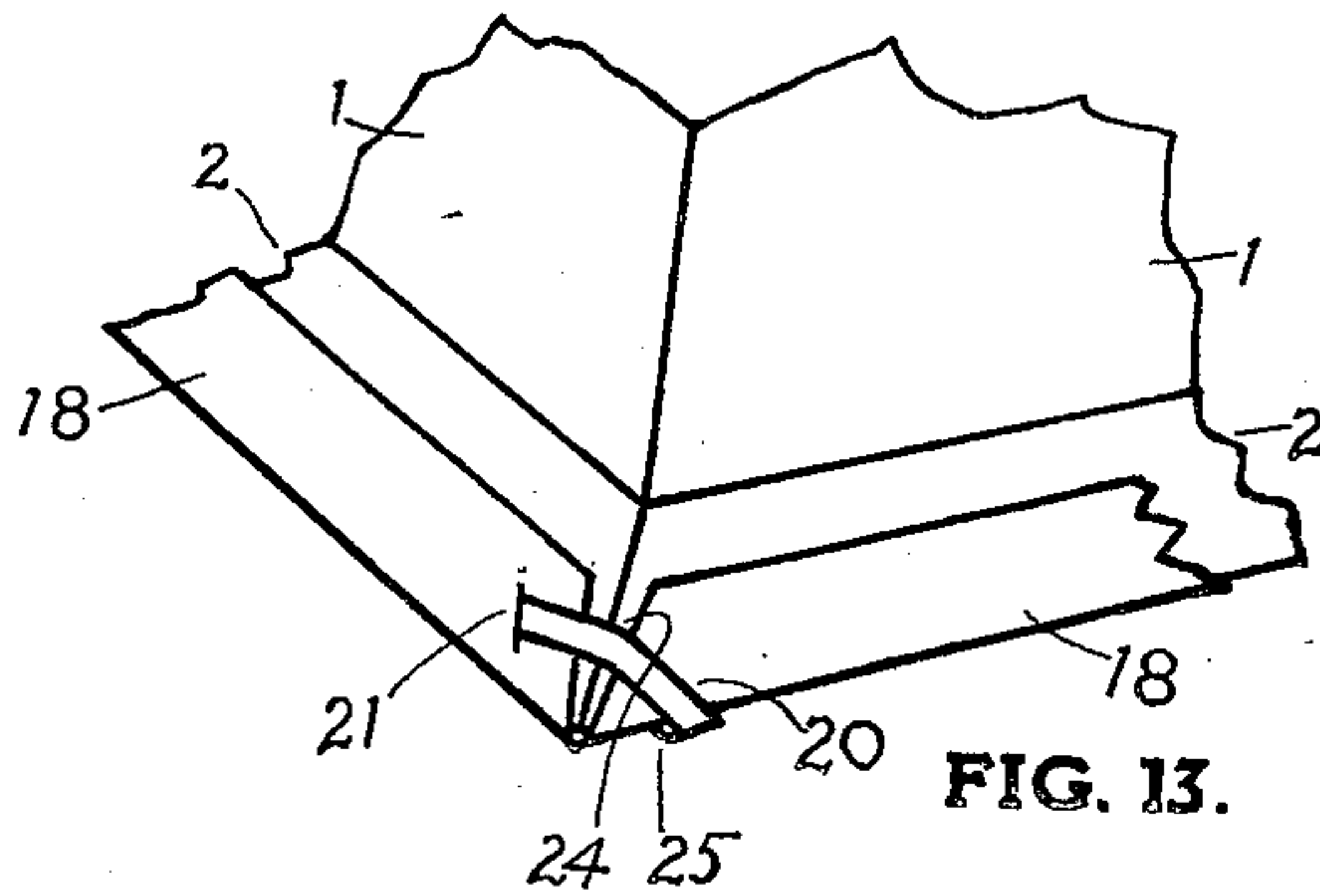


FIG. 13.

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UNITED STATES PATENT OFFICE.

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LAMP-SHADE.

No. 863,178.

Specification of Letters Patent.

Patented Aug. 13, 1907.

Application filed January 11, 1907. Serial No. 351,815.

To all whom it may concern:

Be it known that we, WALTER O. HOLT and RALPH LEETE FOSTER, citizens of the United States, residing at Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Lamp-Shades, of which the following is a specification, reference being had therein to the accompanying drawings.

Like reference numerals indicate like parts.

10 Figure 1 is a plan of one section of our improved lamp shade, and constitutes the blank therefor. Fig. 2 is a plan of four of said sections united in series on their contiguous edges, before bending. Fig. 3 is a perspective view of said four sections, bent to form the 15 four-sided body of a lamp shade, but with the top pieces extending outwardly. Fig. 4 is a perspective view of the lamp shade after the top pieces have been bent down. Fig. 5 is a perspective view of the metallic top piece. Fig. 6 is a perspective view of the 20 completed lamp shade. Fig. 7 is an inverted plan view of the completed lamp shade and illustrates the interior thereof. Fig. 8 is a perspective view showing the lamp shade as used in connection with an electric drop-light. Fig. 9 is a view in front elevation showing 25 the manner of mounting and fastening the lamp shade upon the holder of an electric incandescent drop-light. Fig. 10 is a plan of a bottom piece which may be used with said lamp shade. Fig. 11 is a perspective view of said bottom piece with its flanges upturned. Fig. 30 12 is a perspective view of our improved lamp shade with said bottom piece attached in position. Fig. 13 is an enlarged detail view showing in perspective the manner of fastening said bottom piece to the lamp shade.

35 Our invention relates to lamp shades for electric, gas, or other lights, and consists of the novel construction and combination of the several parts as hereinafter described and specifically set forth in the claims.

The body of the lamp shade is made of any suitable 40 material, preferably pasteboard, or paper of sufficient stiffness to hold its shape. One of the sections is separately shown in Fig. 1, consisting of a truncated triangular piece 1, having at its base a flange 2, whose outer corners are in a beveled or acute-angled form; and also 45 having a flange 3, whose outer corners are in the form of an obtuse angle. The piece 1 is provided with an ear or top 4, having a straight bottom, right-angled side edges and a semi-circular top. A central aperture 5 is made as shown in Fig. 1. The left-hand edge 50 of the body piece 1 is straight and has no flange. The flange 2 is integral with the piece 1, but is bent along the line *x*; the flange 3 is integral with the piece 1, but is bent along the line *y*, and the top or ear 4 is integral with the piece 1, but is bent along the line *z*. The 55 piece 1 is preferably made of a pasteboard or paper,

sufficiently thick to be opaque or semi-opaque, and by cutting out portions thereof in a pattern (thus leaving openings or apertures 6) and placing on the back of the piece 1 a thin colored paper, which is translucent, indicated by 7 in Fig. 7, a soft, tinted light shines 60 through, reducing to an agreeable degree the intense glare of the electric or other light and adapting the shade to domestic use, or for decorative or advertising purposes.

Several of the pieces shown in Fig. 1 are united, as 65 seen in Fig. 2, by fastening them together by means of the flanges 3; pasted or otherwise secured, respectively, to the adjacent straight edge of the contiguous piece, the flanges 2, overlapping loosely at their sides, and the ears 4 overlapping loosely at the adjacent 70 sides, as illustrated in Fig. 2. Then the outermost flange 3, is bent over and upon the outermost straight edge and pasted or otherwise fastened there, whereupon the compound pieces, shown in Fig. 2, assume the form seen in Fig. 3. Next, the ears or top pieces 4 75 are bent down successively, until they all lie flat and form a straight top of four thicknesses, as illustrated in Fig. 4, the holes or apertures 5 all registering with one another, as seen in Fig. 4.

A metallic fastening piece 8 is shown in Fig. 5, con- 80 sisting of a somewhat cup-shaped or flaring ring, and several prongs 9 and flanges 10, all integral, preferably three of each. These flanges and prongs are inserted through all the holes 5 of the ear piece 4, and then the prongs 9 are bent over, as shown in Fig. 7, thus fasten- 85 ing all four of the ears 4 in position and holding them together firmly. The result is the completed lamp shade shown in Fig. 6. The body of the lamp shade is thus given the form of a truncated pyramid, and it possesses much rigidity, thereby being enabled to pre- 90 serve its form in use. The metallic ring or fastening 5 and the folded ears 4, thereby secured together, give much strength and firmness to the structure, and the corner flaps or flanges 3 preserve the vertical edges or corners in shape. 95

The flanges 10 protect the edges of the apertures 5 of the ears 4 from the heat of a gas light, or other flame; and, if the lamp shade is used in connection with an incandescent electric light, as shown in Fig. 8, the fastening piece 8 has another function. In Fig. 8 the 100 electric wire is indicated as 11, entering the usual holder 12, the latter being provided with the ears 13, through which, respectively, pass the set screws 14. The glass bulb of the electric light is seen at 15 in Fig. 9. In Fig. 9 one of the prongs 10 is represented as bent up 105 against the under side of the ear 4 of the body of the lamp shade, and the flange 9 as passing through the apertures 5 of the ears 4. The outer edge of the ring or fastening device 8 passes up within the flange and ears of the holder 12. By turning the set screws 14, the 110

shade is secured in position upon the holder 12, as fully shown in Fig. 9.

In the use of electric lamps which hang quite high, it is sometimes desirable to use a bottom piece for the lamp shade, as is illustrated in Figs. 10 to 13, inclusive. In these figures the bottom piece is indicated as 16 and it is formed with any desired apertures in patterns by the openings 17. The bottom piece 16 has four flanges 18, integral therewith and foldable along the lines or scorings 19. Each flange 18 has an obtuse angled corner and is provided with a suitable fastening device, that shown in the drawings consisting of a flexible metallic strip 20, bent at one end and passing through a cut 21 in the flange 18. A sheet of translucent colored paper 22 is pasted on the interior surface of the bottom piece 16, as shown in Fig. 11.

As seen in Figs. 12 and 13, the flanges 18 of the bottom piece 16 are bent up over the outer surface of the flanges 2 of the lamp shade 1 and are held in that position by bending the inner end of the metallic fastening strip 20 at 23 (Fig. 11), and the middle thereof at 24 (Figs. 12 and 13), and forming the outer end into a hook 25, which reaches under the bottom piece 16, as seen in Figs. 12 and 13, so that the fasteners 20 serve as metallic bands to hang the bottom piece 16 upon the corner of the flange 2.

We claim as a novel and useful invention and desire to secure by Letters Patent:

1. The blank for the improved lamp shade herein described, consisting of the piece 1 in the shape of a truncated triangle with a straight base x and a straight top z and provided with a side flange 3; and an ear piece 4 extending at a right angle with the top z and made with a central circular aperture 5, all said pieces being integral.
2. The blank for the improved lamp shade herein described, consisting of the piece 1 in the shape of a truncated triangle with a straight base x and a straight top z and provided with a bottom flange 2 and a side flange 3; and an ear piece 4 extending at a right angle with the top z and made with a central circular aperture 5, all said pieces being integral.

3. In a lamp shade, the combination of a plurality of side pieces 1, each having the shape of a truncated tri-

angle and provided with a flange 3 and an ear 4 which has a circular opening 5, said pieces being united by means of the flanges 3 overlapping and fastened to the adjacent edge of the contiguous piece 1, and having all the ears 4 bent down to lie in one plane with the openings 5 thereof registering each with the others.

4. The improved lamp shade herein described, consisting of a plurality of pieces assembled in the form of a truncated pyramid, and consisting of a plurality of side pieces, each having the shape of a truncated triangle and provided with a flange and an ear which has a circular aperture, said pieces being united by means of the flanges overlapping and fastened to the adjacent edge of the contiguous piece and having all the ears bent down to lie in one plane with the apertures thereof registering each with the others, and a metallic ring or fastener adapted to pass through all said registering apertures and having prongs which are capable of bending into contact with the lowermost of said ears for the purpose of confining them all in their folded or closed position.

5. In a lamp shade, the combination of a four-sided body portion in the shape of a truncated pyramid, having on the base thereof outwardly a series of four flaring flanges separated from each other by an intervening space; a rectangular bottom piece having on the edges four folded flanges separated at their ends respectively and adapted to overlap the exterior surface of the first named flanges, respectively; and means for securing the flanges of the bottom piece in said position upon the flanges of the body portion *separatim*.

6. In a lamp shade, the combination of a body portion in the shape of a truncated pyramid having on each edge of the base thereof an outwardly flaring flange; a bottom piece having on each edge a foldable flange adapted to overlap the exterior surface of the flanges of the body portion; and a flexible metallic strip secured at one end to each of the flanges of the bottom piece and adapted to form a hook at its opposite end to extend over the adjacent end of the contiguous flange of the bottom piece and also to underlie said bottom piece, thereby securing the bottom piece and body portion together along the whole contiguous surfaces of all said flanges.

In testimony whereof we affix our signatures in presence of two witnesses.

WALTER O. HOLT.
RALPH LEETE FOSTER.

Witnesses:

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HOWARD A. LAMPREY.