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W. L. RUTKOWSKI

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Pouring Spout for Containers

Filed Oct. 1, 1931

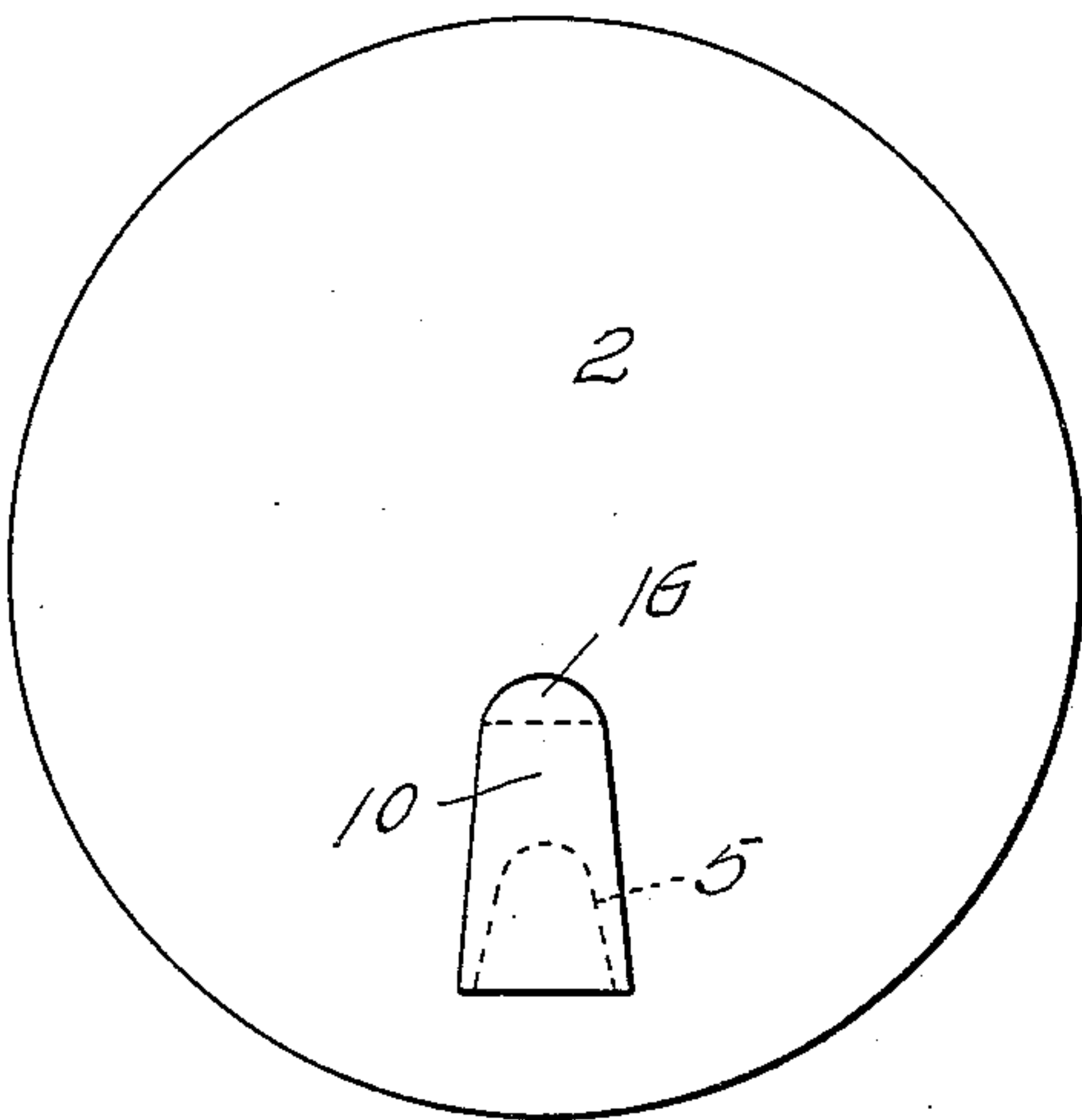


Fig. 1.

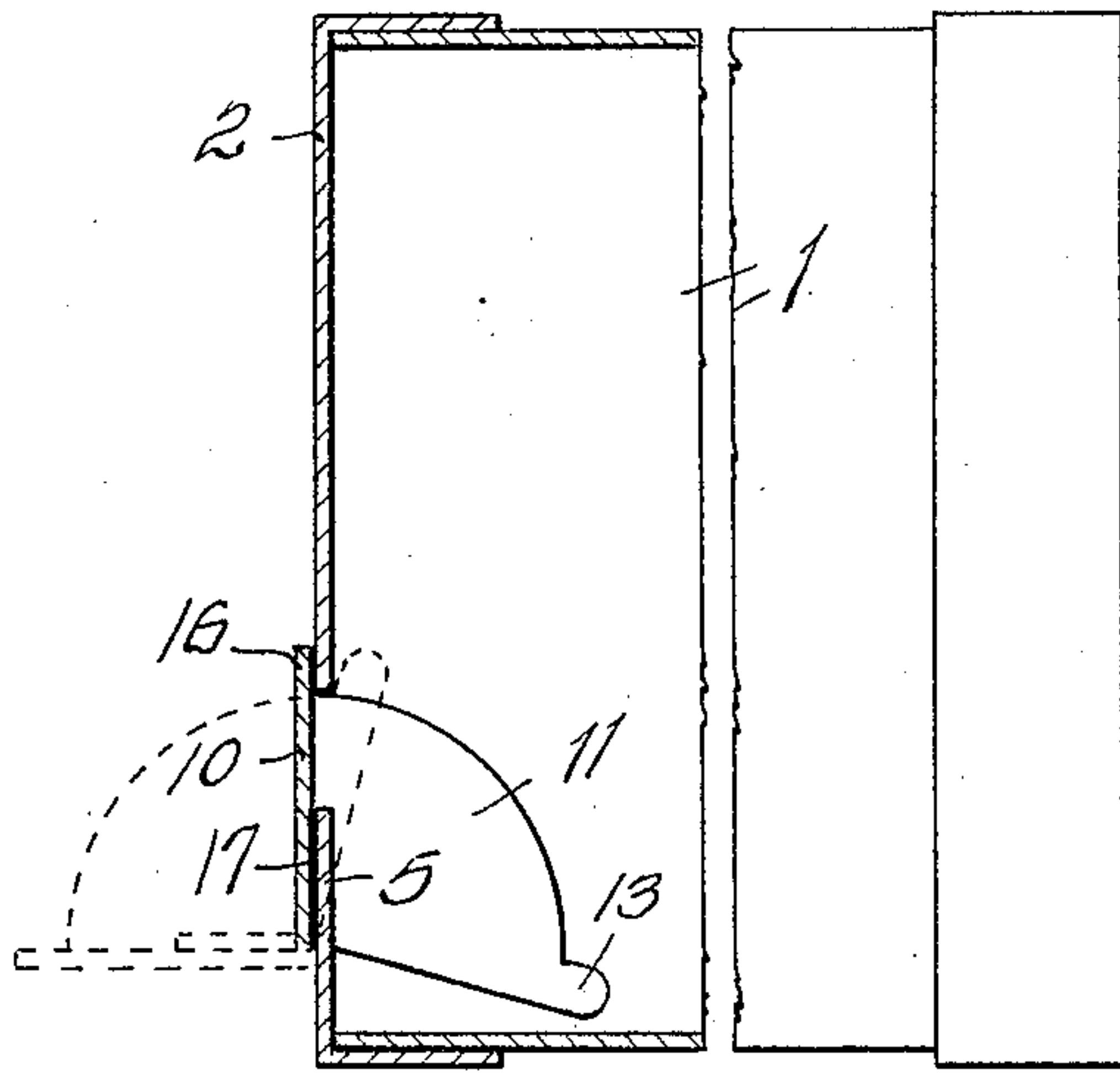


Fig. 2.

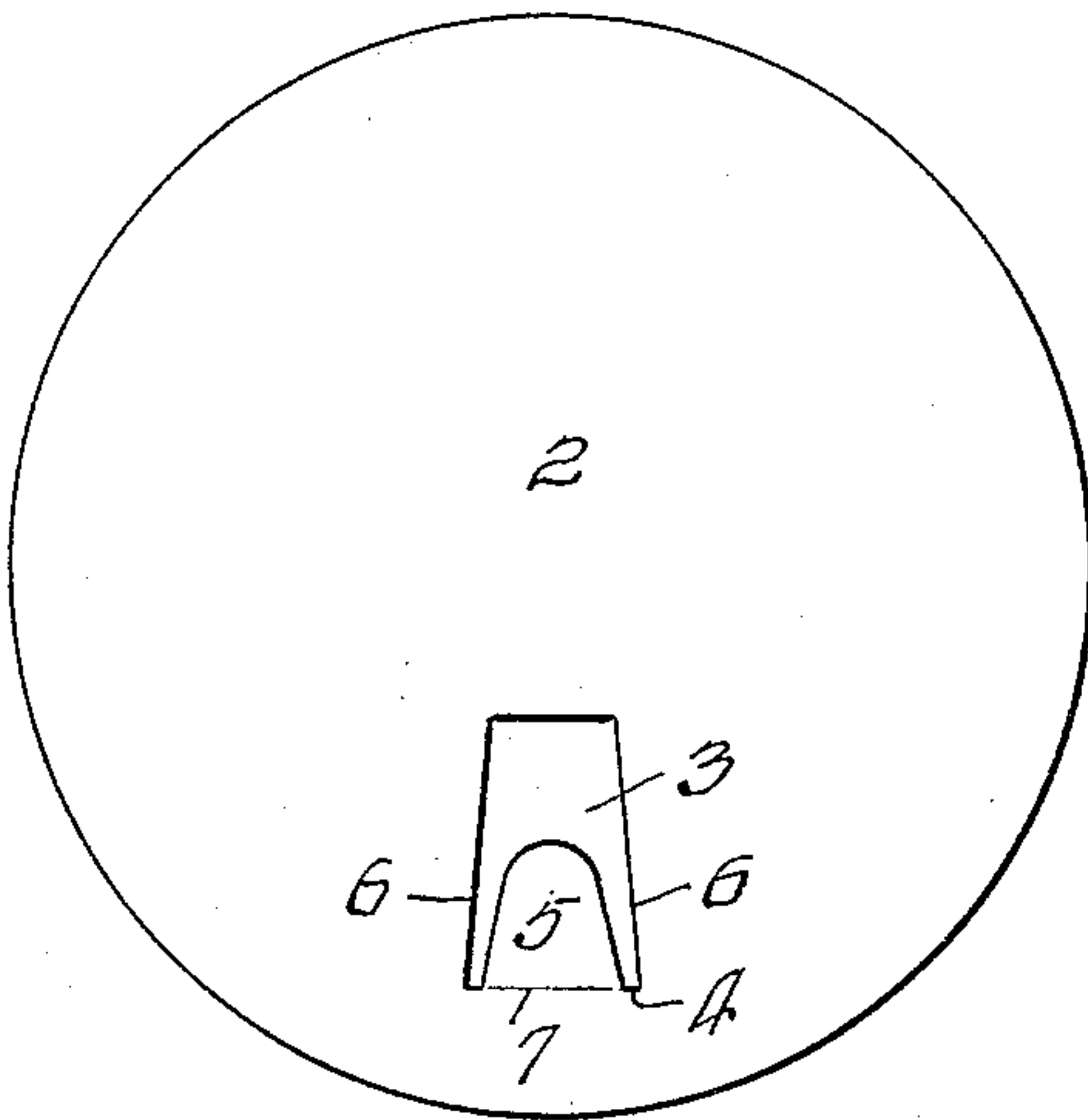


Fig. 3.

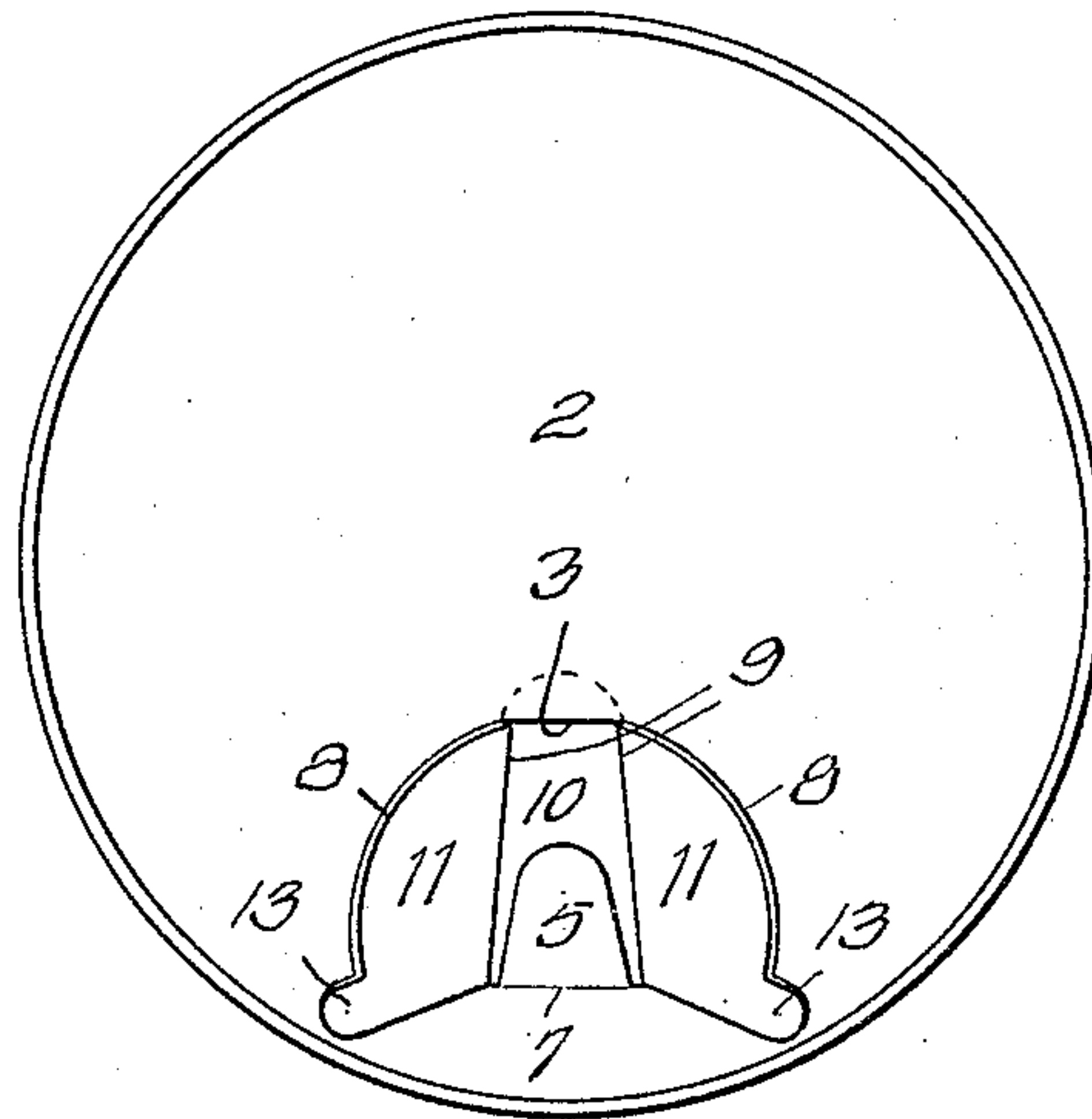


Fig. 4.

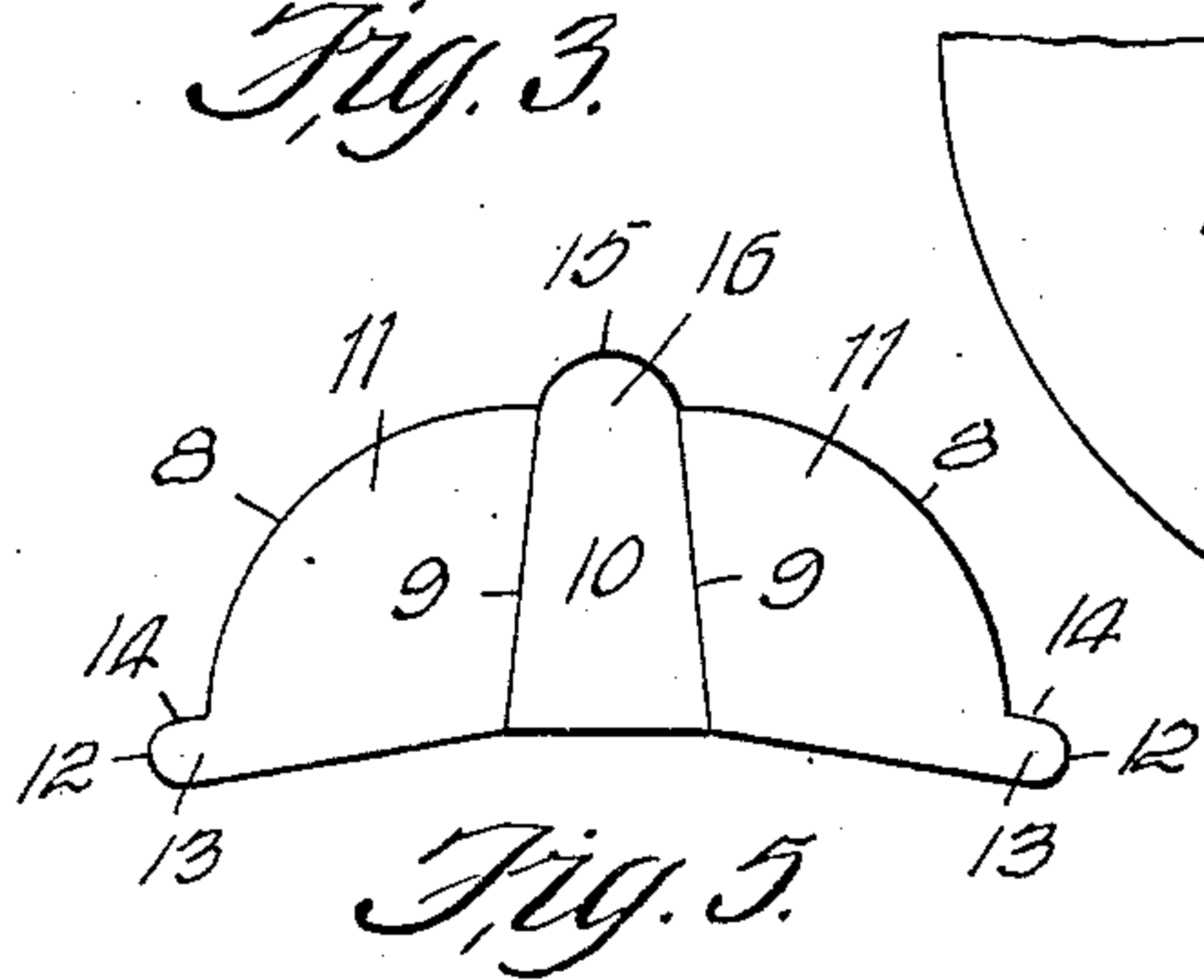


Fig. 5.

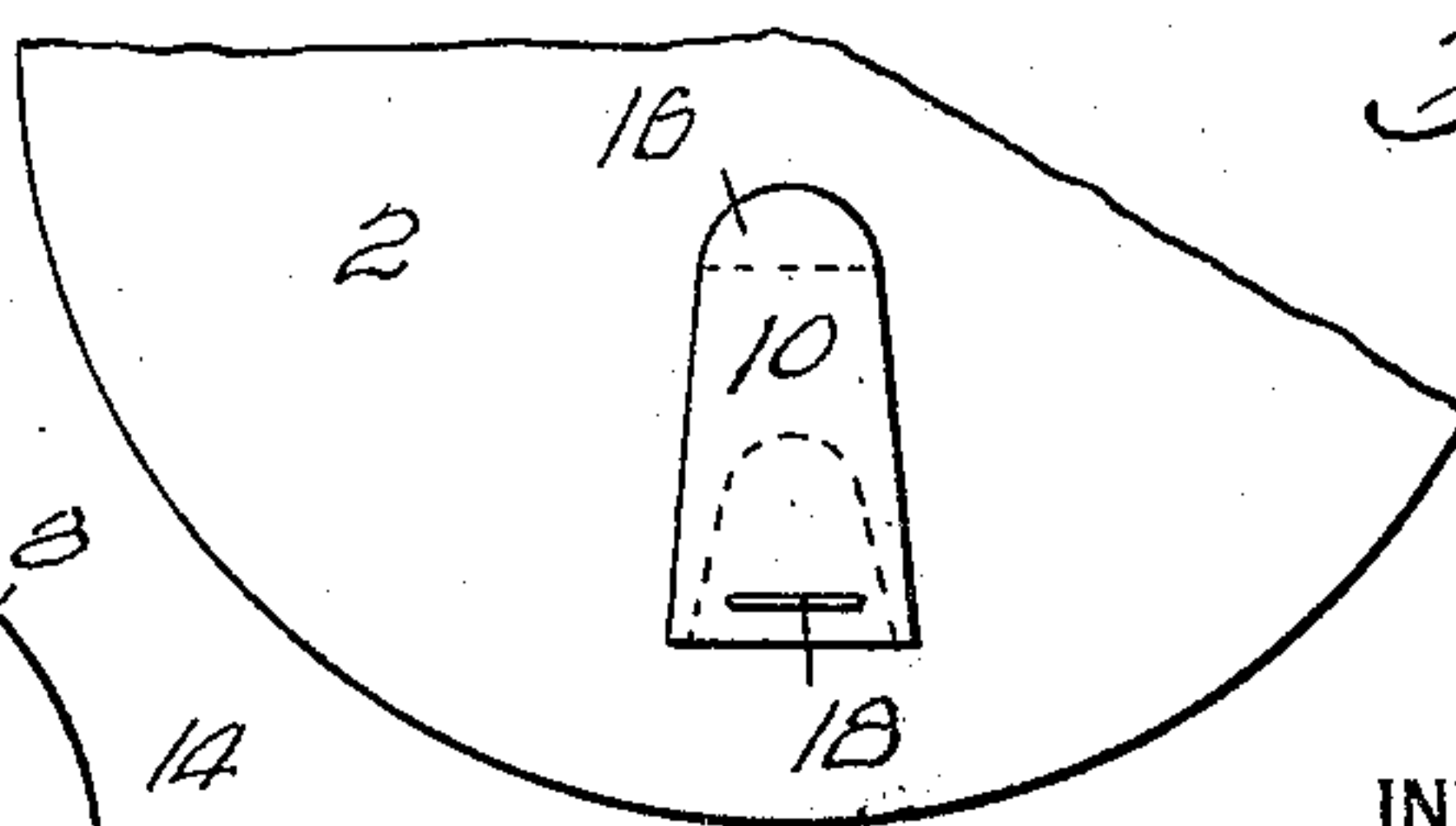


Fig. 6.

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POURING SPOUT FOR CONTAINERS

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My invention relates to pouring spouts for containers, such as paper salt containers, and the like, and, it is a distinct and commercially practical improvement to overcome certain practical objections to, and defects in, the present styles of pouring spouts.

An object of the invention is the provision of a pouring spout which is blanked from paper or cardboard, or other fibrous stock, thereby eliminating the machine forming operation necessary with metallic stock.

Another object of the invention is to provide the paper cover of the container with a hinge tongue which is formed integral with the cover while forming the outlet opening in the cover and to which the fibrous pouring spout is suitably secured.

A still further object of the invention is the provision of a pouring spout which possesses advantages in points of simplicity and efficiency, and, at the same time proves itself comparatively inexpensive in cost of manufacture.

With the above and other objects in view, the invention consists in the novel features of construction, arrangement and combination of parts hereinafter more fully described and finally pointed out in the claims hereto appended.

Referring to the accompanying drawing forming a part of this specification, wherein like characters of reference denote similar parts throughout the several views:

Fig. 1 is an end elevation of a container showing a pouring spout in accordance with my invention applied thereto.

Fig. 2 is a sectional view of one end of the container provided with my improved pouring spout.

Fig. 3 is an outer plan view of the cover of the container before the pouring spout has been applied thereto.

Fig. 4 is an inner plan view of the cover with the spout shown in closed position.

Fig. 5 is a plan view of the pouring spout.

Fig. 6 is a view showing a modified means of securing the pouring spout to the hinge tongue of the cover.

In the drawing, the reference numeral 1

designates a cardboard container having the cover, or closure 2 for one end thereof.

In carrying out the aim of my present invention, I provide the cover 2, near its edge, with a pouring or outlet opening 3. The opening in plan view is of tapered formation, with the base, or wider end 4 of the opening nearest the edge of the cover 2. The base edge 4 of the opening 3 is provided with a hinge tongue 5 which is of tapered or cone formation, and which extends into the outlet opening 3, as clearly shown in Fig. 3. The base end of the hinge tongue is of less width than the base edge 4 of the outlet opening 3 so as to provide the opposed passages 6 between the side edges of the hinge tongue 5 and the side edges of the outlet opening 3. The hinge tongue 5 may or may not be scored at its juncture with the cover 3, as indicated by the light line 7 in Fig. 3.

The forming spout is formed preferably, although not necessarily, from a blank 8 of stiff paper, cardboard, or other fibrous material and has the general outlines clearly shown in Fig. 4. The blank spout is scored as indicated by the light lines 9, thus dividing the spout blank into a central tapered floor portion 10 and two like side portions 11, which side portions form the side walls of the pouring spout. The floor portion 10 of the spout corresponds in size and shape to the outlet opening 3 in the cover 2 and together with the thickness of the side walls 11 is adapted to close the outlet opening 3 in the cover 2 when the pouring spout is attached to the hinge tongue 5. Each side wall portion 11 of the spout is provided with a narrow extension having a cam face 12 to provide a stop member 13, the edges 14 of which are adapted to engage the inner face of the cover 2 to limit the opening movement of the spout when it is desired to pour contents from the container. The narrow end of the central or floor portion 10 of the spout is provided with a narrow extension having a cam face 15 to provide a stop member 16, the inner face of which is adapted to engage the outer face of the cover 2 to limit the closing movement of the spout when it is desired to close the outlet opening 3 in the cover 2 with the

spout after pouring contents from the container 1. The stop member 16 also serves the dual purpose of a finger grip by means of which the spout can be moved into its open or pouring position, as is manifest.

The inner face of the floor portion 10 of the blank spout adjacent the base edge thereof is secured to the upper or outer face of the hinged tongue 5 of the cover 3 by means of a suitable adhesive 17, as clearly shown in Fig. 2. The spout can also, if desired, be secured to the hinged tongue 5 by means of a suitable fastening device, such for instance as a wire staple, as shown in the modification in Fig. 5. The latter way of securing the spout to the hinge tongue, is however, a machine operation, and, therefore more expensive than the former way of securing the spout to the hinge tongue by means of an adhesive, as where an adhesive is employed. the adhesive is applied to either the inner face of the floor portion of the spout, or to the outer face of the hinge tongue, thus all that is necessary to secure the two members together is to press the hinge tongue and spout together when the spout is being inserted into the outlet opening 3 of the cover 2, thus saving a machine stapling operation in securing the spout to the cover of the container. Likewise, a machine forming operation is saved in forming the paper spout for insertion into the outlet opening 3, as the side walls of the blank spout can be readily moved by the fingers of the operator into positions at a right angle to the floor portion of the spout just prior to applying the spout to the hinge tongue and securing them together by means of an adhesive.

Cheapness in the cost of manufacturing containers having pouring spouts has become necessary, and the present invention overcomes certain difficulties experienced in the present methods of manufacture, thereby enabling me to provide a cheap and simple spout for pouring containers without in any way sacrificing the high quality of the article.

The many advantages of the herein described invention will readily suggest themselves to those skilled in the art to which it appertains.

From the foregoing description, it is evident that a simple device for this purpose has been disclosed, but it is to be understood that I do not desire to restrict, or limit myself to the very details of the construction shown and described, which is merely illustrative, it being obvious that changes, not involving the exercise of invention, may be made without conflicting or departing from the spirit of the invention within the scope of the appended claim.

What I claim is:

A fibrous pouring spout for containers having contents pouring opening and a hinge tongue of container material directed into

said opening, said spout including a floor portion shaped to conform to the pouring opening of the container to which it is applied and having a finger pull directed from one end thereof, a pair of arcuate wing members integral with the floor and divided therefrom by score lines, stops integral with the wings and the straight edges of said wings diverging outwardly from the rear edge of the floor so the spout floor will lie at a right angle to the top of the container when in its pouring position, said spout being formed flat to be manually shaped for application to the container by suitable connecting means and said connecting means securing the rear portion of the floor to the hinge tongue of the container.

In testimony whereof, I have hereunto affixed my signature.

WALTER L. RUTKOWSKI.