

A. STABLA.
KALEIDOSCOPE.
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1,294,967.

Patented Feb. 18, 1919.

Fig. 1.

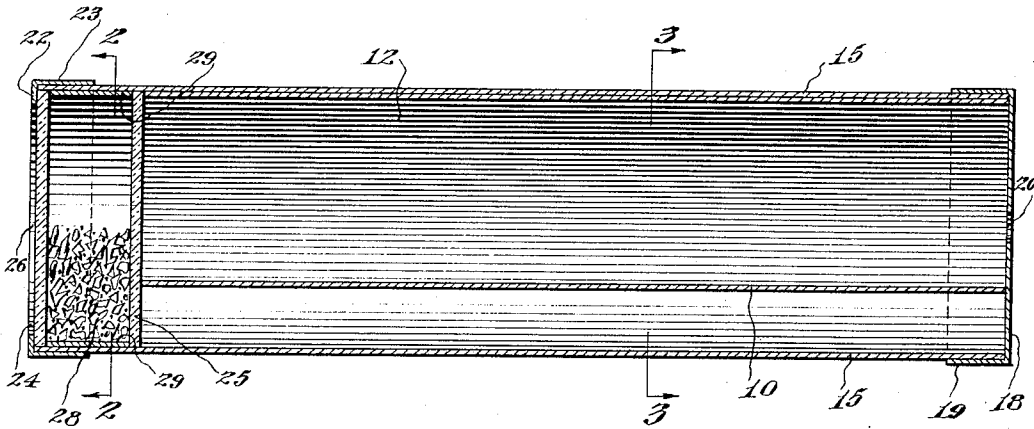


Fig. 2.

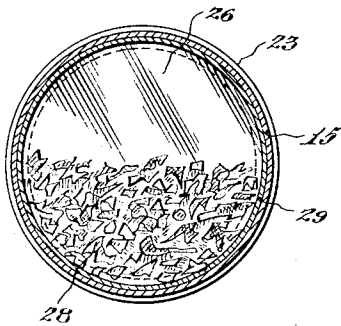
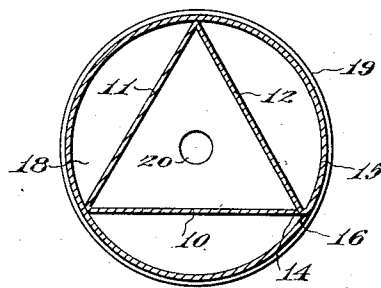


Fig. 3.



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KALEIDOSCOPE.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ANTON STABLA, a subject of the King of Hungary, and a resident of Eccles, in the county of Raleigh, State of West Virginia, have invented certain new and useful Improvements in Kaleidoscopes, of which the following is a specification.

This invention relates to improvements in kaleidoscopic tubes and has its special object the provision of an exceedingly simple and inexpensive tube, formed from a single piece of material.

A further object is to provide a kaleidoscopic tube which may be sold at an unusually low price and which is capable of performing all the functions of an expensive instrument.

These and other like objects are attained by the novel construction and combination of parts hereinafter described and shown in the accompanying drawings, forming a material part of this disclosure, and in which:—

Figure 1 is a longitudinal sectional view taken substantially through the center of a tube made in accordance with the invention.

Fig. 2 is a transverse sectional view taken on line 2—2 of Fig. 1, and

Fig. 3 is a transverse sectional view taken on line 3—3 of Fig. 1.

The invention comprises an inner triangular tube having its walls respectively 10, 11 and 12, formed from a single sheet of highly polished material having a mirror-like reflecting surface, the elements 10 and 12, being soldered together at the joint 14.

The surrounding circular tube 15, is formed by bending the edge of the element 12, outward into a cylinder, the opposite edge 16 being likewise held by a soldered joint, the triangular tube making contact at its apices with the interior of the cylindrical tube at their points of intersection, and being soldered thereto if desired.

A cap 18, is secured over one end of the cylindrical tube 15, by means of the annular flange 19, and provided with an aperture 20,

through which a view may be taken. A similar cap 22 is provided at the opposite end of the tube held in position by the annular flange 23, and contains a relatively large circular opening 24.

The adjacent end of the triangular tube, comprised of the members 10, 11 and 12 are shortened as shown in Fig. 1, while the outer, cylindrical tube 15 extends therebeyond and has fixed in it, two transparent plates, respectively 25 and 26, made of glass or like material, and having in the space between them a plurality of colored fragments 28, of broken glass or the like which, as the tube is rotated, revolves into various formations. A spacer 29 is interposed between the transparent plates so as to hold them substantially parallel and the outer plate is held in position by the cap 22.

The operation of the tube is in all respects similar to those which are well known in the art, the invention residing in the structural material employed and in its peculiar conformation.

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

In a kaleidoscopic tube the combination of a unitary structure consisting of an inner triangular tube, a mirror-like reflecting surface in said tube, having its edges joined by solder and an outer cylindrical tube circumjacent to said triangular tube, the edges of said tubes being joined by solder, said outer tube being of greater length than said inner triangular tube, apertured caps at the ends of said cylindrical tube, a pair of transparent plates set in one end of said cylindrical tube, a spacer between said plates one of which contacts with the end of said triangular tube, said tubes being made of a highly polished mirror-like material, and a plurality of colored fragments disposed between said transparent plates.

In testimony whereof, I have affixed my signature.

ANTON STABLA.