

A. ZABIELSKI.
KALEIDOSCOPE.

APPLICATION FILED JAN. 29, 1918.

1,274,656.

Patented Aug. 6, 1918.

2 SHEETS—SHEET 1.

Fig. 1.

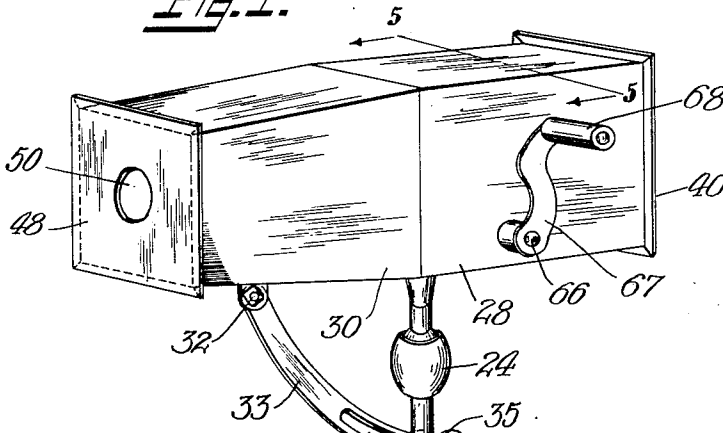


Fig. 2.

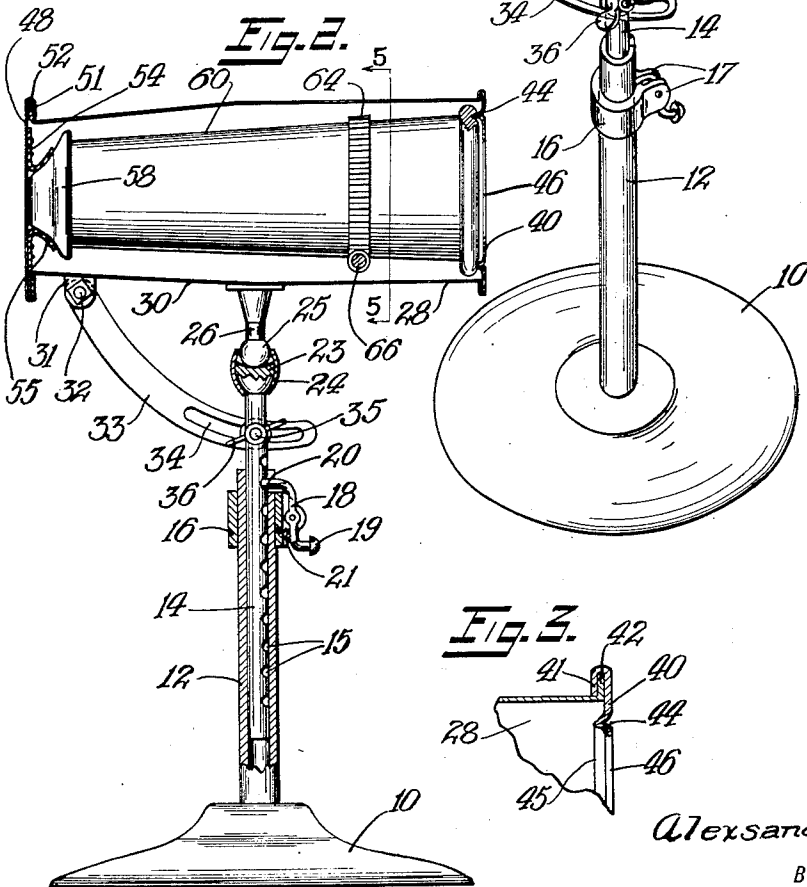
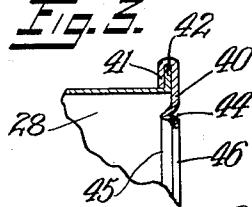


Fig. 3.



INVENTOR

Alexander Zabielski

BY *Arnan Geier*

ATTORNEY

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2 SHEETS—SHEET 2.

Fig. 4.

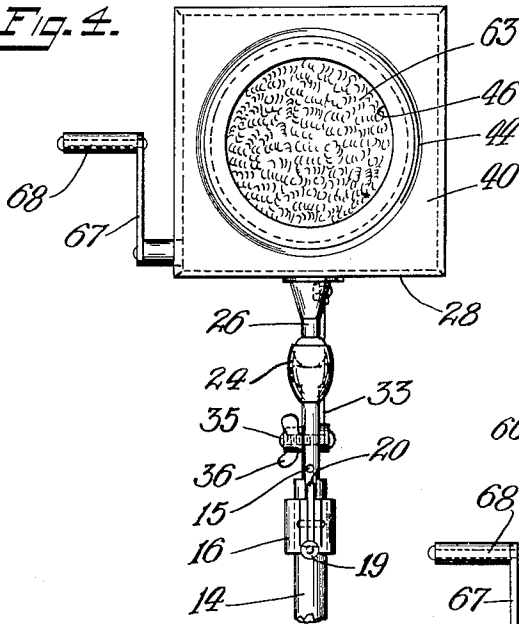


Fig. 5.

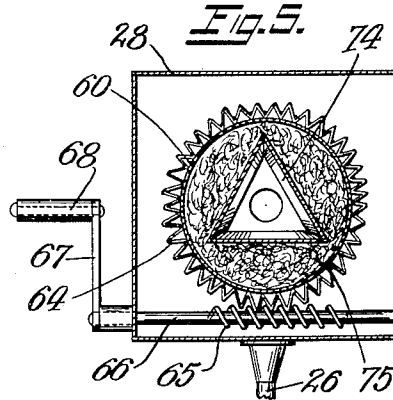
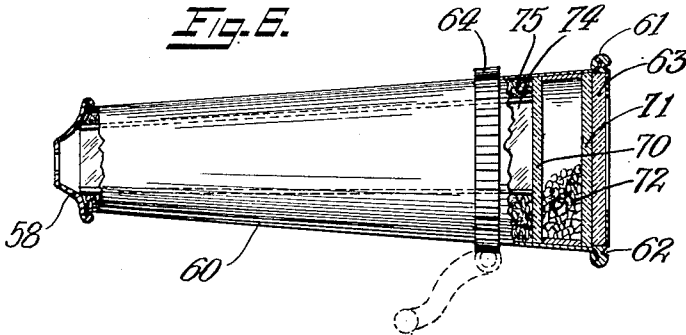


Fig. 6.



INVENTOR
Alexsander Zabielski

BY *Anas Zell*

ATTORNEY

UNITED STATES PATENT OFFICE.

ALEXSANDER ZABIELSKI, OF WATERVLIET, NEW YORK.

KALEIDOSCOPE.

1,274,656.

Specification of Letters Patent.

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Application filed January 29, 1918. Serial No. 214,264.

To all whom it may concern:

Be it known that I, ALEXSANDER ZABIELSKI, a citizen of Russia, resident of Watervliet, county of Albany, and State of New York, have invented certain new and useful Improvements in Kaleidoscopes, of which the following is a specification.

This invention relates to improvements in kaleidoscopes and has as its principal object the provision of an apparatus, which may be adjustably mounted on a stand provided with means for adjustments as to height, so that the apparatus can be used in a particularly convenient manner.

A further object is to provide a kaleidoscope which may be used for practical purposes, whereby ornamental designs in an infinite number may be produced.

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

Figure 1 is a perspective view showing a kaleidoscope made in accordance with the invention.

Fig. 2 is a vertical sectional view taken through the center of the same.

Fig. 3 is a fragmental sectional view indicating the construction of the interior casing.

Fig. 4 is a front elevational view of the same.

Fig. 5 is a transverse sectional view taken on line 5—5 of Fig. 1, and

Fig. 6 is a partial side elevational view of the rotatable sleeve in which the elements are displayed.

Extending upward from a base 10 is a tubular column 12, in which is slidably engaged a bar 14, having a plurality of indentations 15, formed at spaced intervals in one side thereof. Engaged upon the exterior of the column 12, is a collar 16, having extending parallel lugs 17, in which is pivoted a lever 18, its extending end being provided with an operating knob 19, and the opposite end 20, bent and adapted to engage as a detent with the indentations 15, thereby holding the bar at any desired elevation, a spring 21, pressing the detent into operative engagement.

At the extreme upper end of the bar 14, is a spherical seat 23, surrounded by a curved casing 24, in which is engaged a

sphere 25, having a stem 26, connected in such manner as to support a rectangular casing comprised of two parts, the front portion 30, of which is contracted and has engaged at its lower end a bracket 31 in which is pivotally connected by a pin 32, a curved arm 33 having a slot 34, in which is engaged a bolt 35 provided with a wing nut 36. The bolt also passes through the upper end of the bar 14, thereby allowing the kaleidoscope casing to be positioned at any desired angle and secured in such adjustment, while obviously the entire casing can be raised and lowered and held in position, due to the detent 20, in connection with the indentations formed at the sides of the bar.

Engaged at the outer end of the casing portion 28, is a head or cover 40, the same having a reëntranly turned edge 41, engaging the flanged portion 42, of the casing 28, while formed in the head is an annular recess 44, the internal extending edge 45 of which is concentric with the central opening 46.

At the opposite end of the casing section 30, is a similar cover 48, containing a central circular opening 50, and having a reëntranly turned edge 51, engaged with the flanged element 52, of the casing while secured interiorly of the cover 48, is an annular flange 54, from which extends a conical element 55, in which is engaged a similar cone 58, formed with an interior casing 60, having engaged at its opposite outer end a ring 61 having a circular marginal indentation 62, engageable with the ring like projection 45, of the plate 40, so that the cone 60, is revolubly mounted centrally within the rectangular casing. Held within the ring 61 is a transparent plate 63 and secured on the casing 60 is a wire coiled and adapted to act as a spur gear 64, engaging with which is a worm 65 on the shaft 66, mounted in the lower portion of the casing 28, the shaft extending through at one end and having secured upon it a lever 67, provided with an operating handle 68.

Within the casing 60, are circular transparent disks 70 and 71, between which are exposed fragments of colored material 72, so that as the cone is rotated the fragments form automatically into different shapes, while between the inner transparent plate 70, and the end 58, are interior horizontal

partitions 74, having fibrous material 75 interposed between their outer surfaces and the interior of the casing.

From the foregoing it will be seen that
 5 when the handle 68, is operated, the interior casing 60, is caused to rotate, and the material contained therein will be formed into an infinite number of designs in a manner which will be clearly understood by those
 10 familiar with the art.

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

1. In a kaleidoscope, the combination with
 15 a rotatably mounted cone, fragments of material mounted therein, means for rotating said cone, a hollow rectangular casing in which said cone is centered, a support for said casing, means for raising and lowering
 20 said support, means for inclining said casing, and means for holding said casing in an adjusted position.

2. In a kaleidoscope, the combination with
 25 a stand having a tubular column arising therefrom, a bar having indentations formed at the side, mounted in said column, a universal joint at the upper end of said bar, a

rectangular casing supported by said universal joint, a curved arm engaged with said casing, means for securing said curved arm
 30 at an angle with said bar, a conical element rotatably mounted in said casing, means for rotating said conical element, and means permitting a view through said casing.

3. In a kaleidoscope, the combination with
 35 a rectangular hollow casing, heads engaged at the ends thereof, said heads containing axial openings, a hollow cone rotatably mounted in said heads centrally of said casing, means for rotating said casing, said
 40 rotating means extending at the outside of said casing, a central support for said casing, said support terminating in a sphere, a spherical seat receptive of said
 45 sphere, a curved arm pivotally engaged at one end of said casing, means for securing said curved arm in adjustment, a bar supporting said spherical joint, a support for said bar and means whereby said casing
 50 may be raised, lowered or held in adjustment.

In testimony whereof I have affixed my signature.

ALEXSANDER ZABIELSKI.