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W. H. MEAGHER.

APPARATUS FOR PRODUCING PRISMATIC EFFECTS.

APPLICATION FILED NOV. 10, 1902.

NO MODEL.

Fig. I.

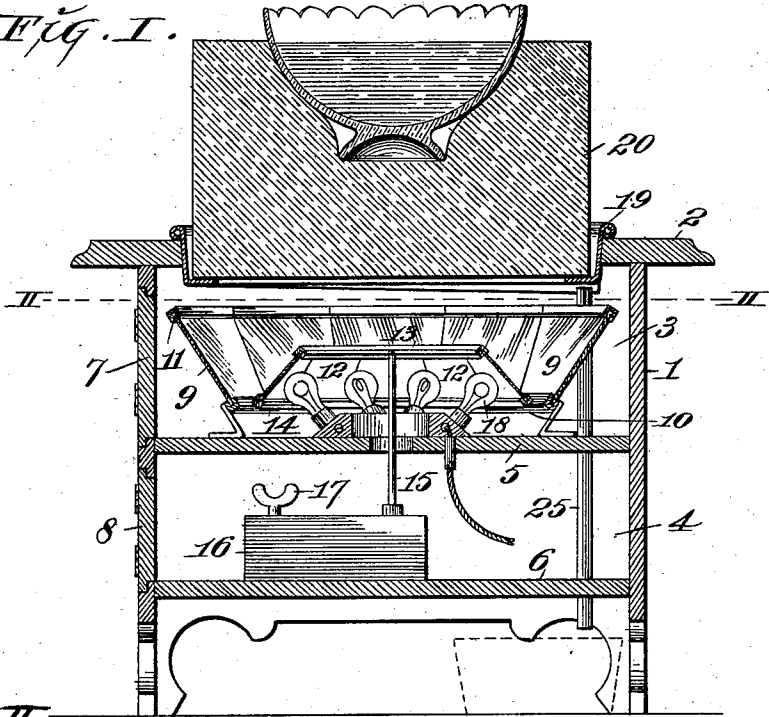


Fig. II.

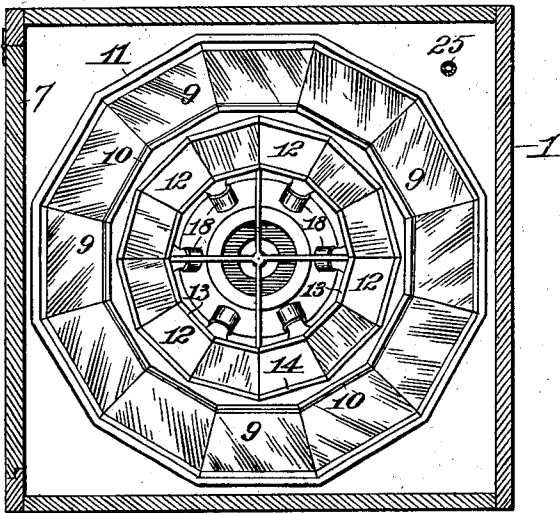
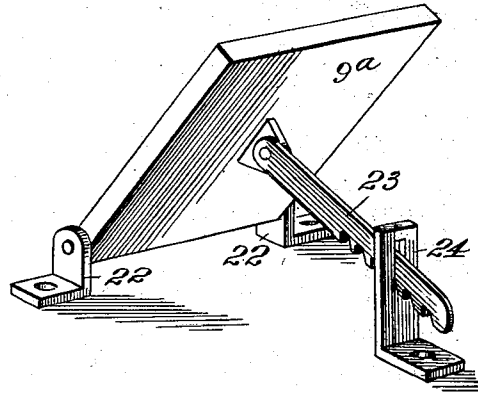


Fig. III.



attest :—
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APPARATUS FOR PRODUCING PRISMATIC EFFECTS.

SPECIFICATION forming part of Letters Patent No. 718,496, dated January 13, 1903.

Application filed November 10, 1902. Serial No. 130,692. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. MEAGHER, a citizen of the United States, residing in the city of St. Louis, in the State of Missouri, have
5 invented certain new and useful Improvements in Apparatus for Producing Prismatic Effects, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of
10 this specification.

My invention relates to an apparatus for producing prismatic effects by the projection of rays of light through a transparent body; and my invention consists in features of novelty hereinafter fully described, and pointed
15 out in the claims.

Figure I is a vertical section of my apparatus. Fig. II is a horizontal section taken on line II II, Fig. I, and showing the parts of the
20 apparatus below said line in plan. Fig. III is a perspective view of a modified form of mirror for use in the apparatus.

1 designates a stand provided with a top 2 and divided into compartments 3 and 4 by
25 shelves 5 and 6. Access to the compartments 3 and 4 is provided for by doors 7 and 8.

9 designates mirrors arranged in a series to form a polygon and flared upwardly and outwardly from their lower edges. The mirrors
30 are seated in a ring-frame 10, mounted on the shelf 5, and their upper edges are confined within a top ring 11.

12 designates sections of colored glass arranged in a polygon shape within the polygon
35 formed by the mirrors 9 and flared downwardly and outwardly from the spider 13, by which the glass sections are carried. The lower ends of the sections are confined in a ring 14. The spider 13, that carries the glass
40 sections 12, is mounted on a rotatable rod 15, that is connected with clockwork mechanism within a box 16, mounted on the shelf 6 and provided with a winding-key 17.

18 designates electric lamps mounted on the
45 shelf 5 beneath the series of glass sections 12, from which rays of light are thrown through the various-colored sections of glass as the series of them is revolved on the rotation of the rod 15.

50 19 designates a tray seated in the top of the stand 1 and provided with a central aperture.

20 is a block of transparent substance, preferably ice, which is seated in the tray 19 and is adapted to receive a bowl 21. The bowl 21 is intended to receive a liquid, such as a beverage, in the use of the apparatus. 55

Referring to Fig. III, 9^a designates an adjustable mirror of a form which may be used in lieu of the fixed mirrors 9 and may be adjusted to vary the angles of the mirror with
60 respect to the transparent block 20 and the sections 12 of colored glass. The mirror 9^a is pivotally mounted in brackets 22 and has connected to it a supporting-rack 23, which is shiftably seated in a slotted portion 24. 65
25 is a drain-pipe leading from the lowermost side of the tray 19, into which water may flow when the transparent block 20 is of ice.

In the practical use of my apparatus the parts are arranged as described, and upon the
70 winding of the clockwork mechanism in the box 16 rotation is imparted to the series of colored-glass sections 12, so that the various sections will travel past the lamps 18. As the colored-glass sections pass the lamps 18
75 rays of light of various colors corresponding to the colors of the glass sections are projected from these sections up into the transparent body 20, thereby producing prismatic effects in the transparent body of varied colors and hues. 80
A portion of the rays of light from the lamps are directed through the colored-glass sections onto the mirrors 9, which are disposed at angles to the colored-glass sections and transparent body 20, and as these rays of
85 light strike the mirrors they are reflected therefrom and projected into the transparent body in lines intersecting the lines of the rays passing directly to the transparent body through the glass sections 12, so that an intermingling of the colors and hues resulting
90 from the projected rays of light are produced in the body 20. I thus produce prismatic effects of great variety throughout the transparent body 20, thus rendering it an object
95 of great beauty and attractiveness, and the produced effects are transmitted from said body against and into the bowl 21, thereby rendering its appearance as attractive as the transparent body in which it is seated. 100

I claim as my invention—

1. The combination in an apparatus of the

character described, of a transparent body, a series of colored-glass sections arranged in proximity to said transparent body, and lamps from which rays of light are directed through said glass sections and projected into said transparent body to produce prismatic effects therein, substantially as set forth.

2. The combination in an apparatus of the character described, of a transparent body, a series of colored-glass sections arranged in proximity to said transparent body and set at angles with respect to said body, and lamps from which rays of light are directed through said glass sections into said transparent body to produce prismatic effects therein, substantially as set forth.

3. The combination in an apparatus of the character described, of a transparent body, a series of colored-glass sections arranged in a polygonal shape in proximity to said transparent body, and lamps from which rays of light are directed through said glass sections into said transparent body, substantially as set forth.

4. The combination in an apparatus of the character described, of a transparent body, a series of colored-glass sections arranged in proximity to said transparent body, a series of mirrors surrounding said series of glass sections, and lamps from which rays of light are directed through said glass sections into said transparent body, and onto said mirrors to be projected therefrom into said transparent body, substantially as set forth.

5. In an apparatus of the character described, the combination of a stand, a transparent block mounted in said stand, a series of mirrors positioned beneath said block, a series of colored-glass sections arranged in proximity to said mirrors, and lamps from which rays of light are directed through said glass sections, to said mirrors, substantially as set forth.

6. In an apparatus of the character de-

scribed, the combination of a stand, a transparent block mounted on said stand, a series of mirrors arranged beneath said block, a series of colored-glass sections arranged in proximity to said mirrors, means for rotating said series of glass sections, and lamps arranged to direct rays of light through said glass sections onto said mirrors, substantially as set forth.

7. In an apparatus of the character described, the combination of a stand, a transparent block mounted on said stand, a series of mirrors arranged in the form of a polygon beneath said block, a series of colored-glass sections arranged within the polygon formed by said mirrors and lamps from which rays of light are directed through said colored-glass sections onto said mirrors, substantially as set forth.

8. In an apparatus of the character described, the combination of a stand, a transparent block mounted on said stand, a series of mirrors arranged in the form of a polygon beneath said block, a series of colored-glass sections arranged in the form of a polygon within the polygon formed by said mirrors, and lamps from which rays of light are directed through said colored-glass sections onto said mirrors, substantially as set forth.

9. In an apparatus of the character described, the combination of a stand, a transparent block mounted on said stand and adapted to receive a vessel, a series of mirrors arranged beneath said transparent block, a series of colored-glass sections arranged in proximity to said mirrors, means for rotating said colored-glass sections, and a series of lamps from which rays of light are directed through said glass sections onto said mirrors, substantially as set forth.

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In presence of—

E. S. KNIGHT,
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