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M. GRAIN

2,447,407

GEM

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Fig. 1

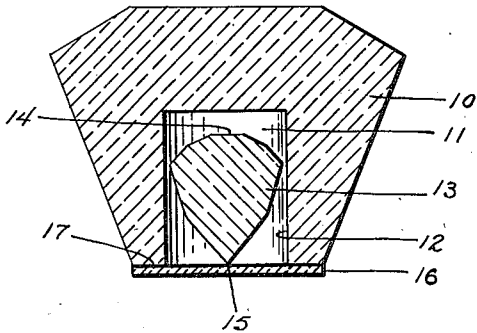


Fig. 2

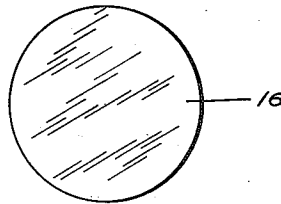


Fig. 3

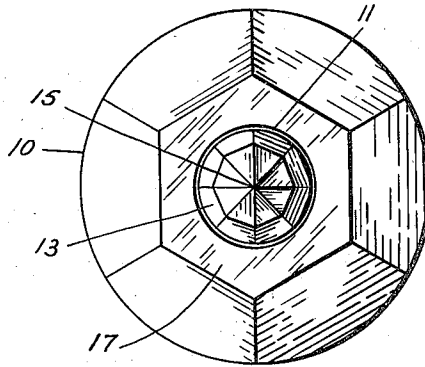


Fig. 4

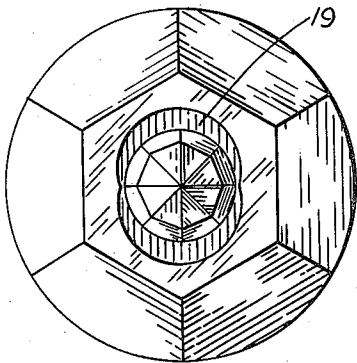


Fig. 5

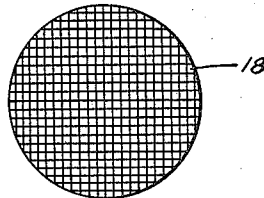


Fig. 6

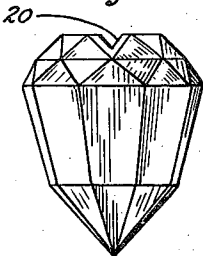
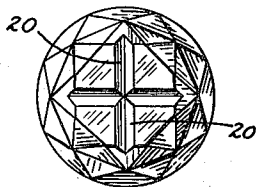


Fig. 7



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# UNITED STATES PATENT OFFICE

2,447,407

GEM

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5 Claims. (Cl. 63—32)

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This invention relates to improvements in gems, both natural and imitation.

Broadly, it is an object of my invention to provide a cavity on the inside of the gem within which another gem is positioned so that it can vibrate and revolve upon its apex, thus providing greater brilliance to the stone or gem.

More particularly, it is an object of my invention to provide a hollow gem having a movable gem within the hollow held in position by a reflecting disk to provide greater reflection and breaking up of the light rays.

Still another object of my invention is to provide crossing grooves upon the table of the gem within the hollow of the larger stone or gem to further break up the light rays to enhance the brilliance of the larger gem.

Another object is to provide means within a gem in the form of a cavity to permit sufficient vibration and movement of another gem within such cavity.

A further object is to provide a faceted gem within a larger faceted gem wherein the gem within the larger gem is permitted to revolve or move about its apex.

With the above and other objects in view, the invention will be hereinafter more particularly described, and the combination and arrangement of parts will be shown in the accompanying drawings and pointed out in the claims which form a part of this specification.

Reference is now had to the drawing in which:  
Fig. 1 is a cross sectional view of a gem incorporating the invention.

Fig. 2 is a plan view of the reflecting disk or mirror shown in Fig. 1.

Fig. 3 is a bottom view of Fig. 1 with the reflecting disk removed.

Fig. 4 is a bottom view of a modified gem.

Fig. 5 is a fine wire screen used in place of the reflecting disk or mirror.

Fig. 6 is a side view of a modified stone or gem which may be used instead of the interior stone shown in Fig. 1.

Fig. 7 is a top view of the stone shown in Fig. 6.

Referring to the drawings, numeral 10 represents a faceted stone or gem having an interior cavity or opening 11 which may be round as shown in Fig. 3; gem 10 may be precious or semi-precious, glass, plastic or the like. Cavity 11 has smooth sides 12, but may also be faceted if desired. Cavity 11 has within it another and smaller faceted stone or gem 13 which is so positioned that its table 14 is in upward position and its apex 15 in lower position. The entrance

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to cavity 11 is sealed with a reflecting mirror or disk 16 by pasting it against the bottom 17 of stone 10, permitting the apex 15 to rest upon the surface of the mirror 16. Gem 13 fits loosely within cavity 11, thus permitting stone 13 to revolve or sway upon apex 15. The light passing through stone or gem 10 will be broken and reflected by the different facets of stone 13; some beam of light will be reflected upward by the mirror 16 and will then be re-reflected and broken into the spectrum colors. The movements of stone 13 will further reflect and break up the light thus giving greater brilliance to the compound gem.

In some instances, it is desirable to permit light to pass through the base of the gem. I have, therefore, provided a fine mesh screen 18, shown in Fig. 5, to substitute the mirror 16. Screen 18 may be attached to the base of stone 10 by various well-known means. The light could then pass upward through screen 18 and be broken into spectrum colors by both gems 13 and 10.

In Fig. 4, instead of circular cavity 11, I have provided cavity 19 in the form of a figure 8 which will permit greater movement of the interior gem.

Figs. 6 and 7 show V-shaped grooves 20, cut in the top or table of the gem to further break up and reflect any beams of light striking the sloping sides of grooves 20. The gems shown in Figs. 6 and 7 may be used inside of cavity 11 in place of the stone 13.

It is understood that various changes and modifications may be made in the details of construction and arrangement of parts without departing from the general spirit of the invention.

I claim:

1. A faceted gem having an opening in the lower central portion thereof, a smaller faceted gem adapted to fit within said opening which permits it to revolve and move slightly therein, a closure for said opening, said smaller gem resting upon said closure whereby greater brilliance is obtained.

2. A faceted gem having an opening in the lower central portion thereof, a smaller faceted gem having an apex and adapted to fit within said opening which permits it to revolve and move slightly therein, a closure for said opening, said apex of said smaller gem resting upon said closure whereby greater brilliance is obtained.

3. A faceted gem having an opening in the lower central portion thereof, a smaller faceted gem having an apex and adapted to fit within

said opening which permits it to revolve and move slightly therein, a reflecting mirror adapted to close said opening, said apex of said smaller gem resting upon said mirror whereby greater brilliance is obtained.

4. A faceted gem having an opening in the lower central portion thereof, a smaller faceted gem having an apex and adapted to fit within said opening which permits it to revolve and move slightly therein; a screen adapted to close said opening; said apex of said smaller gem resting upon said screen, whereby greater brilliance is obtained.

5. A faceted gem having an 8-shaped opening in the lower central portion thereof, a smaller faceted gem having an apex and adapted to fit

within said opening which permits it to revolve and move slightly therein, a closure for said opening, said apex of said smaller gem resting upon said closure whereby greater brilliance is obtained.

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REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
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