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E. P. HALTOM

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GEM

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Fig. 1.

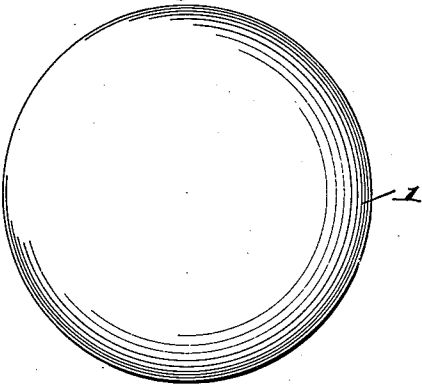


Fig. 2.

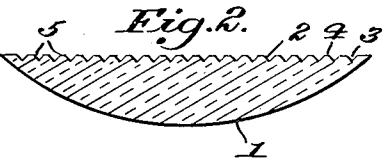
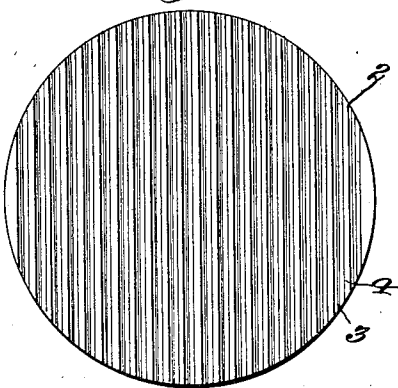


Fig. 3.



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2 Claims. (Cl. 63—32)

My invention relates to a process for treating gem material and to the product thereby produced, and has for its object to produce in gems or stones an increase of lustre or brilliance so that a relatively dull gem or stone will be given a greatly improved appearance and greater value. With the above object in view my invention consists in and comprises the improved process and product hereinafter described and claimed.

Referring to the drawing:

Figure 1 is a front view on an exaggerated scale of a convex surfaced gem or stone embodying my invention.

Figure 2 is a central vertical sectional view of the gem shown in Figure 1, and

Figure 3 is a view of the back of the gem shown in Figures 1 and 2.

The gem or stone to which my process may be applied may be of any usual material either natural precious, or semiprecious gems, or stones produced by synthetic methods or of glass. The gem or stone shown is of a usual shape having its face 1 convex and its back 2 flat.

In this flat back 2 I form by grinding or otherwise parallel grooves 3 throughout the surface of the back and then polish the intervening surfaces 4 between the grooves, and I also polish

the sides 5 of the grooves which are approximately V-shaped in cross section. There is thus produced on the back of the gem or stone a succession of linear faces of which one is a portion of the flat back surface and the other two are at angles to the flat back surface, and also at angles one to the other.

Light rays entering through the face of the stone or gem are reflected by the polished faces of the back and are concentrated toward the centre of the convex face, producing a lustrous effect similar to that of a star sapphire or cats-eye.

My process may be applied to stones having front surfaces other than convex and having backs other than flat.

Having thus described my invention what I claim is:

1. A gem or stone having a flat surface on its back, having parallel grooves in said flat surface and having the portions between contiguous grooves polished.

2. A gem or stone having a flat surface on its back, having parallel grooves in said flat surface and having the portion between contiguous grooves and the sides of the grooves polished.

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