

# (12) United States Patent

#### Richmond et al.

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#### (54) ORNAMENT WITH IMAGE PROJECTOR

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patent is extended or adjusted under 35 U.S.C. 154(b) by 206 days.

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(51) **Int. Cl.** F21V 33/00 (2006.01)

(58) Field of Classification Search ................... 362/564, 362/565, 561, 121, 123, 806, 654, 811; 428/11, 428/19

See application file for complete search history.

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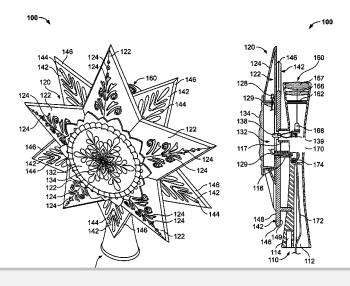
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#### (57)**ABSTRACT**

Some embodiments of a decoration apparatus may have an attractive appearance and multi-functional capabilities. The decoration apparatus may include one or more internal light sources that provide lighting effects in combination with decorative elements formed in the structure. In addition to providing internal lighting effects, the decoration apparatus may include a projector device, which is capable of displaying a light pattern on a remote surface, such as a wall or a ceiling.

#### 22 Claims, 13 Drawing Sheets





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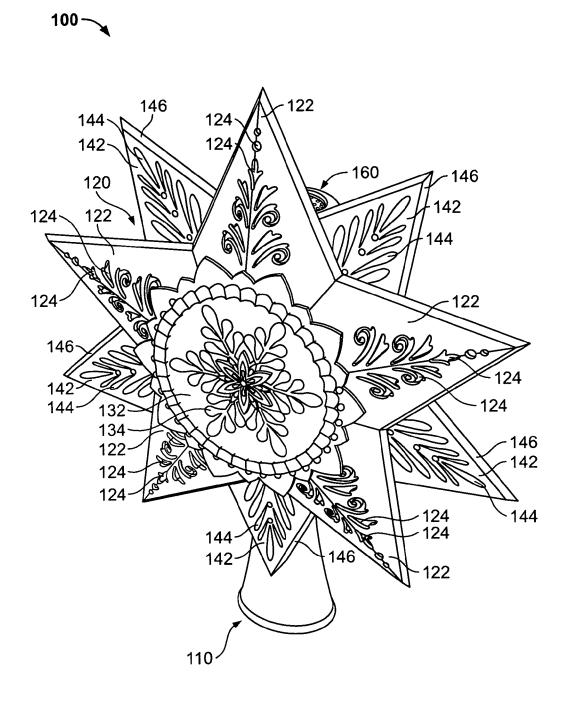


FIG. 1A



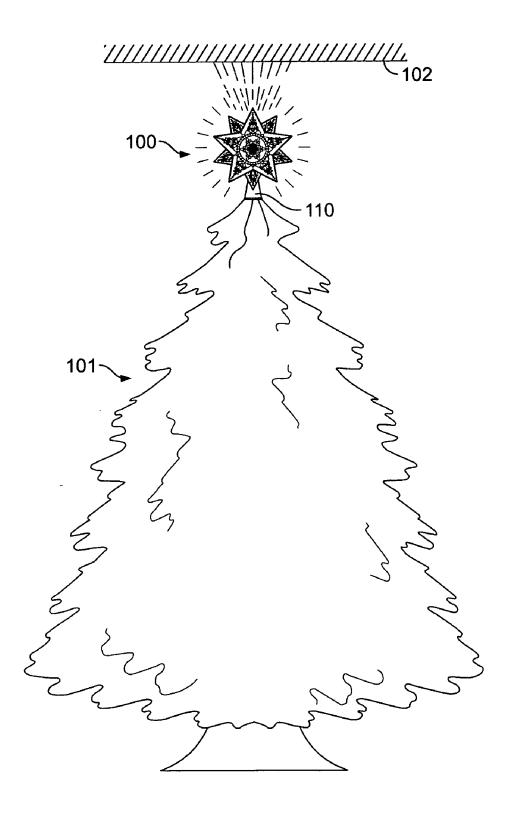


FIG. 1B



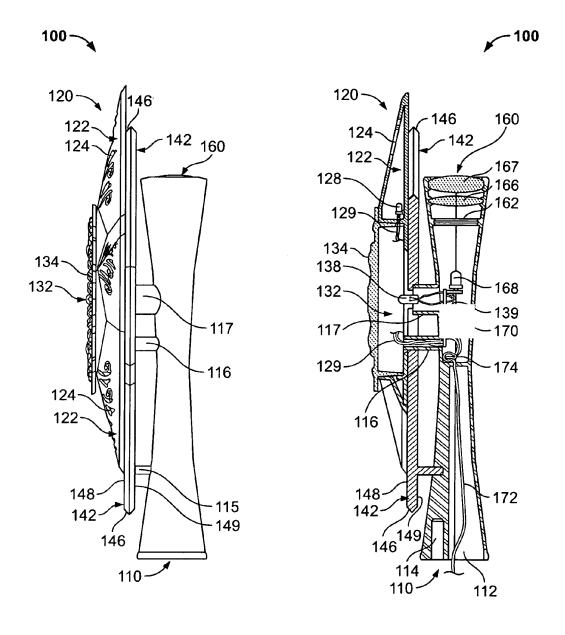


FIG. 2 FIG. 3

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