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Smith

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- (54) **LASER-DRIVEN LIGHT SOURCE**
- (75) **Inventor:** **Donald K. Smith**, Belmont, MA (US)
- (73) **Assignee:** **Energetiq Technology, Inc.**, Woburn, MA (US)
- (*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 820 days.
- (21) **Appl. No.:** **11/695,348**
- (22) **Filed:** **Apr. 2, 2007**

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(65) **Prior Publication Data**
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Related U.S. Application Data

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- (51) **Int. Cl.**
H05B 31/26 (2006.01)
G01J 3/10 (2006.01)
G21G 4/00 (2006.01)
H01J 61/28 (2006.01)

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(52) **U.S. Cl.** **250/493.1**; 250/504 R; 315/111.21; 315/111.71; 315/111.91; 313/231.31; 313/231.41; 313/231.71

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Primary Examiner—Bernard E Souw
(74) *Attorney, Agent, or Firm*—Proskauer Rose LLP

See application file for complete search history.

(57) **ABSTRACT**

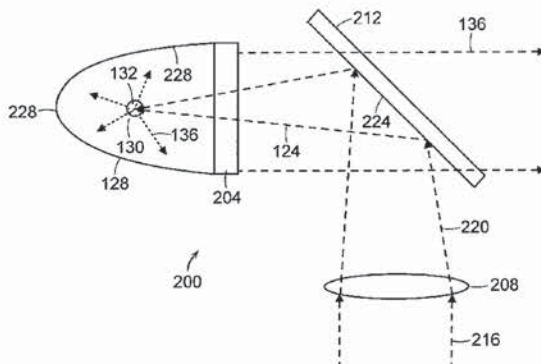
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An apparatus for producing light includes a chamber and an ignition source that ionizes a gas within the chamber. The apparatus also includes at least one laser that provides energy to the ionized gas within the chamber to produce a high brightness light. The laser can provide a substantially continuous amount of energy to the ionized gas to generate a substantially continuous high brightness light.

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43 Claims, 8 Drawing Sheets



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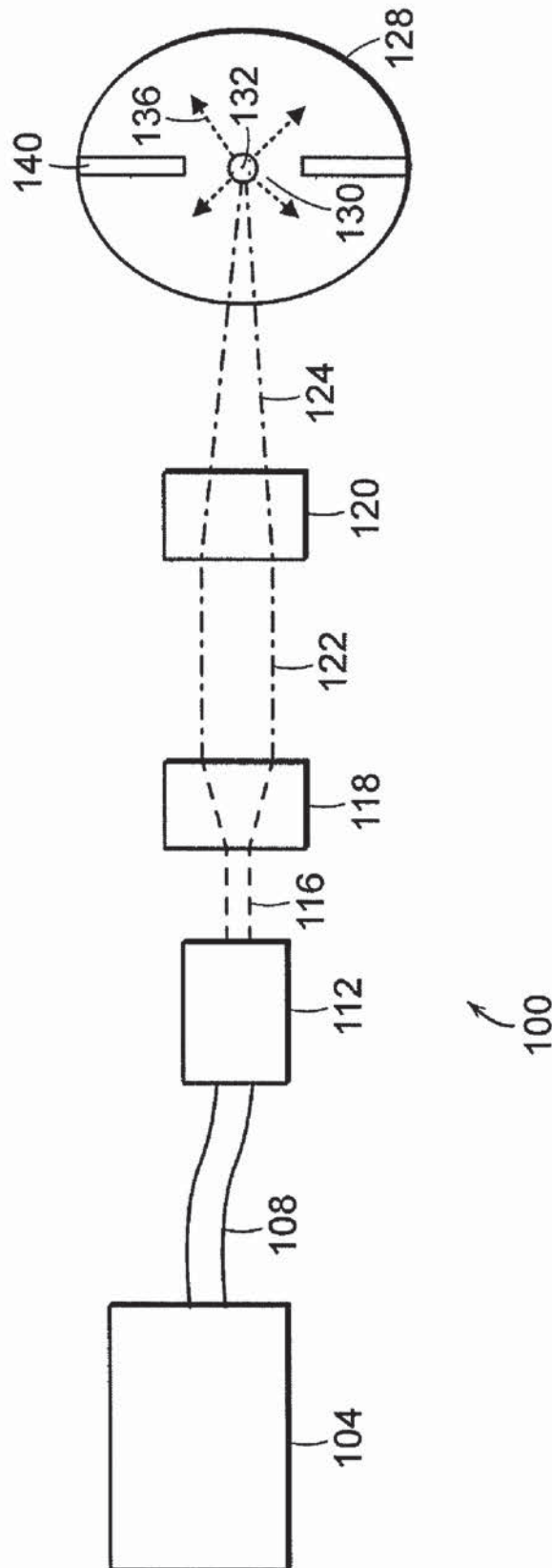
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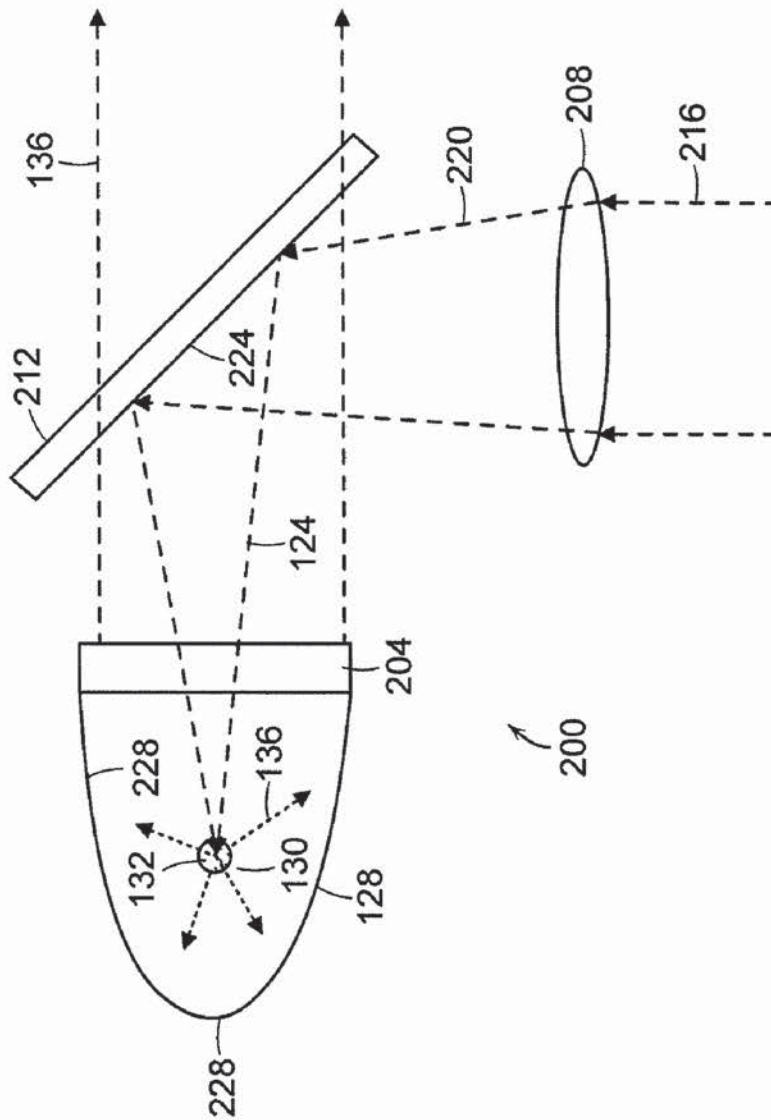


FIG. 2

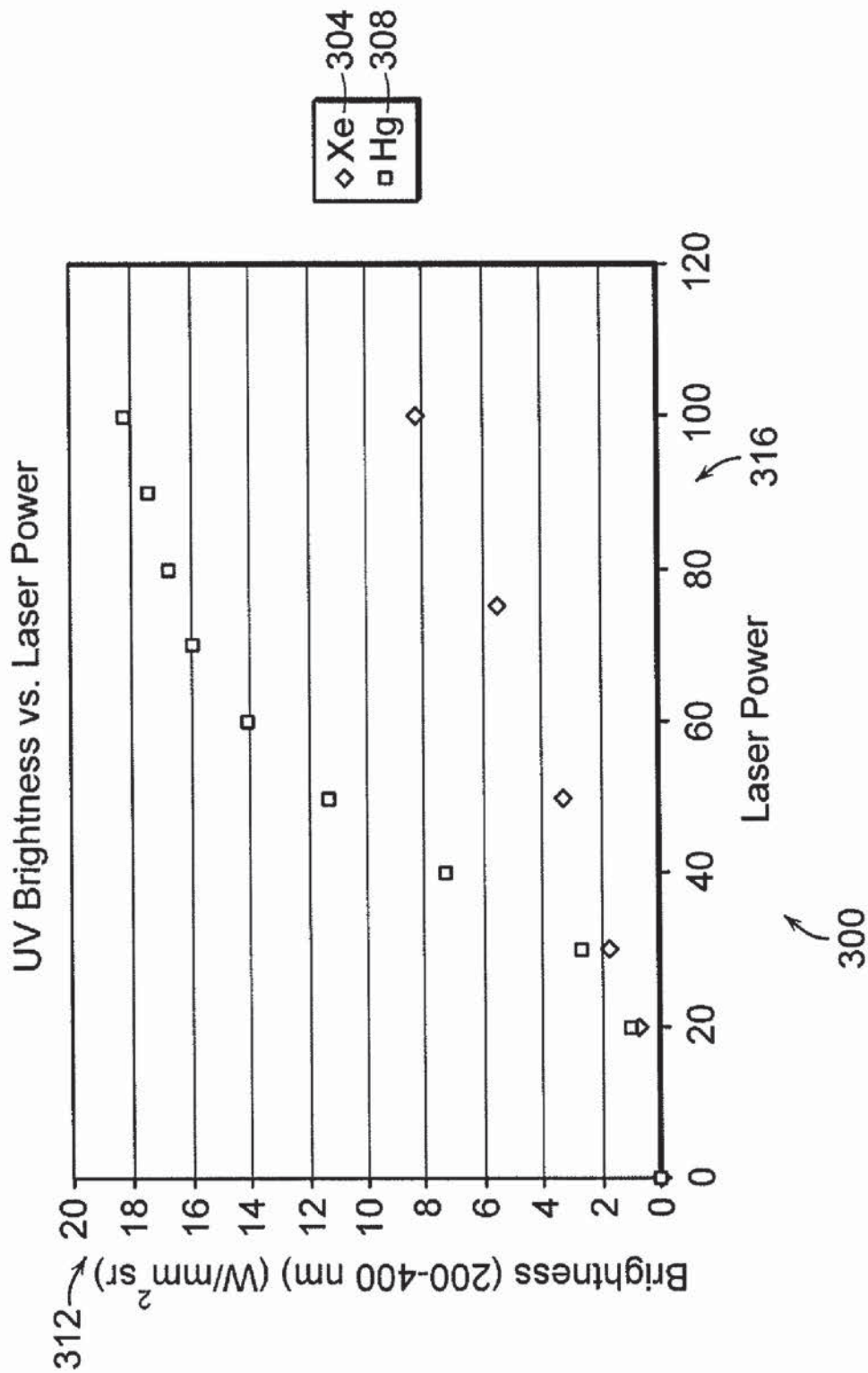


FIG. 3

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