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Smith

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(54) **LASER-DRIVEN LIGHT SOURCE**

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(73) Assignee: **Energetiq Technology, Inc.**, Woburn, MA (US)

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(51) **Int. Cl.**

H05B 31/26 (2006.01)
G01J 3/10 (2006.01)
G21G 4/00 (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

(58) **Field of Classification Search** 250/423 R, 250/423 P, 424, 426, 494.1, 493.1, 504 R, 250/504 H; 315/111.21, 111.71, 111.91; 313/231.31, 231.41, 231.61, 231.71, 631, 313/632, 633

See application file for complete search history.

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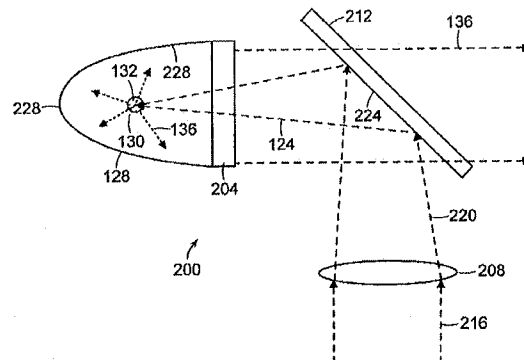
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(57) **ABSTRACT**

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.

43 Claims, 8 Drawing Sheets



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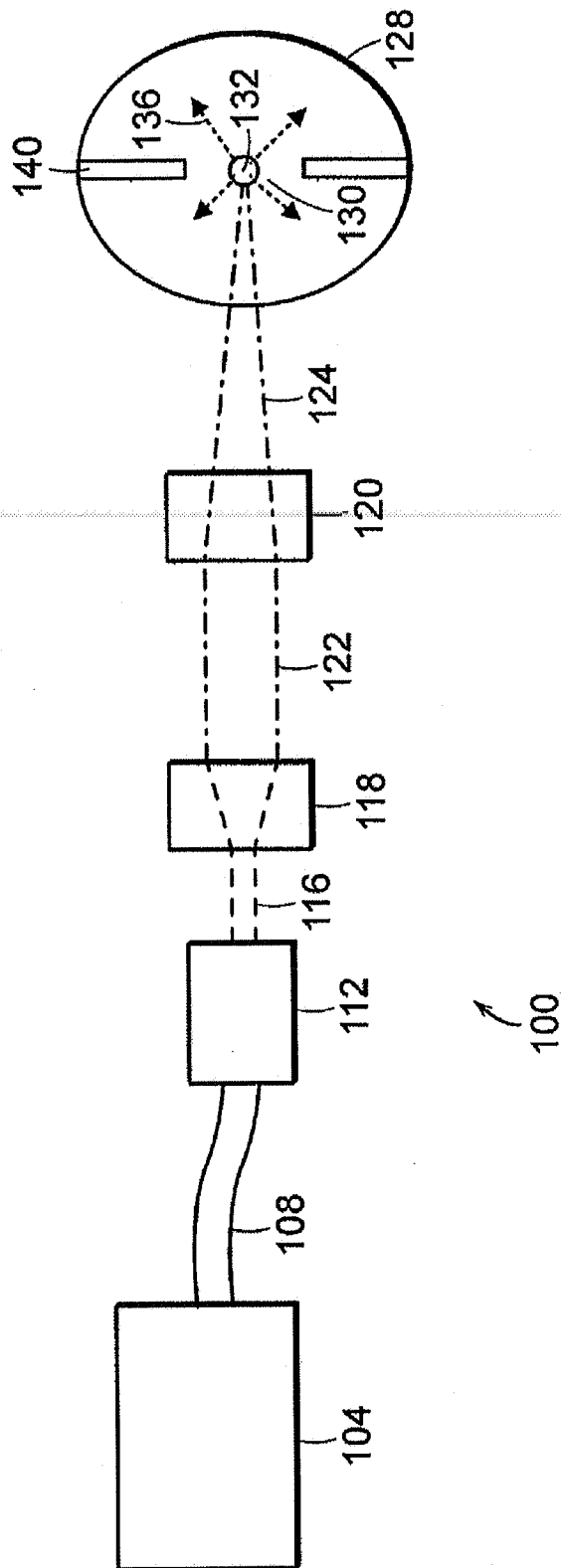


FIG. 1

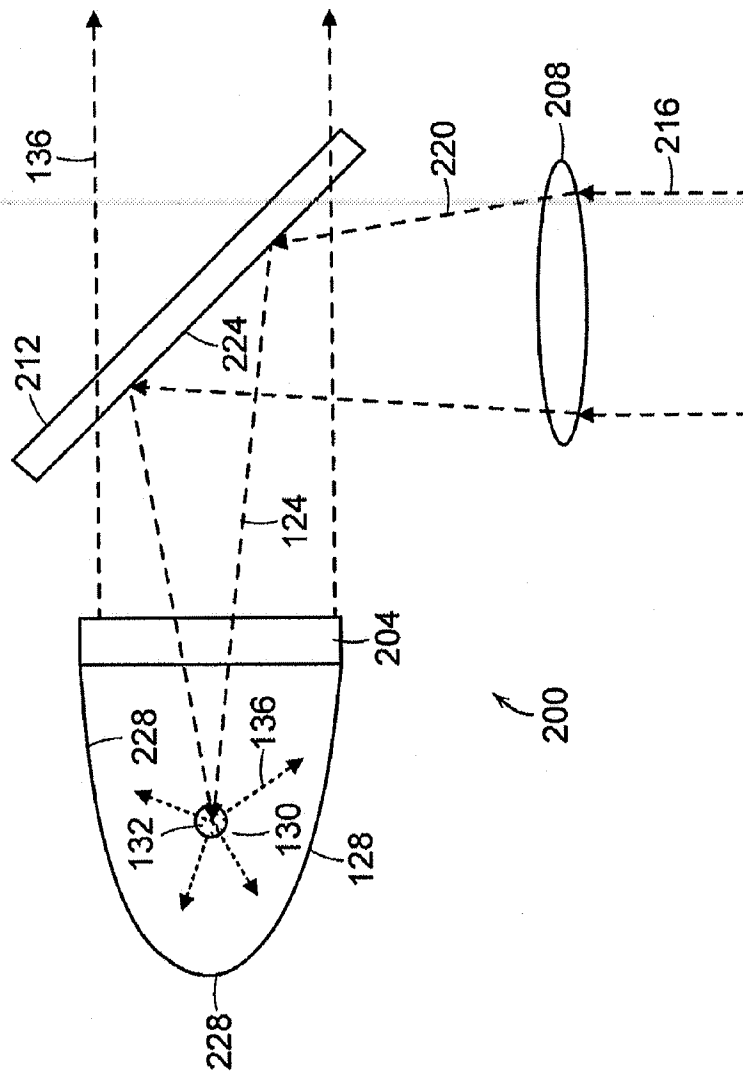


FIG. 2

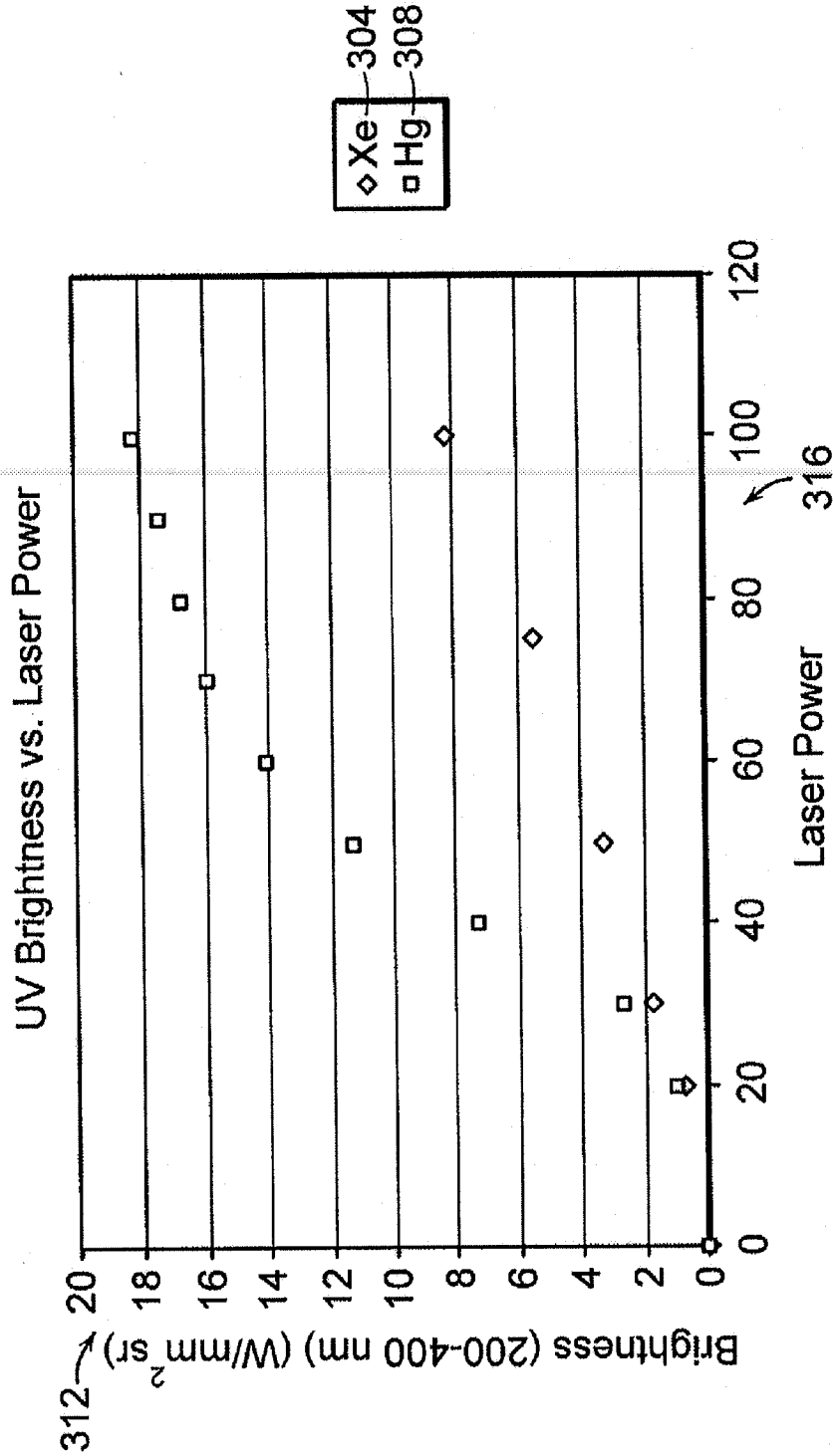


FIG. 3

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