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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)

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A61N 5/06 (2006.01)
G01J 3/10 (2006.01)
H05G 2/00 (2006.01)

(52) **U.S. Cl.** ..... **250/504 R**; 250/423 P; 250/426; 250/493.1; 438/104; 438/301; 438/513; 438/156; 252/301.36; 252/301.16; 252/301.4 F; 385/31; 385/33; 385/38

(58) **Field of Classification Search** ..... 250/504 R, 250/423 P, 426, 493.1; 438/104, 301, 513, 438/156; 252/301.16, 301.36, 301.4 F; 385/31, 385/33, 38
See application file for complete search history.

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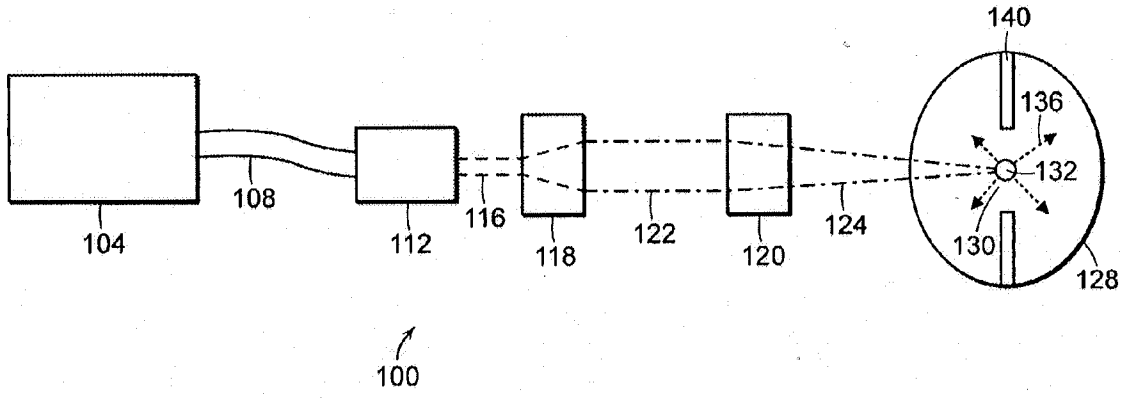
Primary Examiner—Jack I Berman
Assistant Examiner—Meenakshi S Sahu
(74) *Attorney, Agent, or Firm*—Proskauer Rose, LLP

(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.

81 Claims, 4 Drawing Sheets



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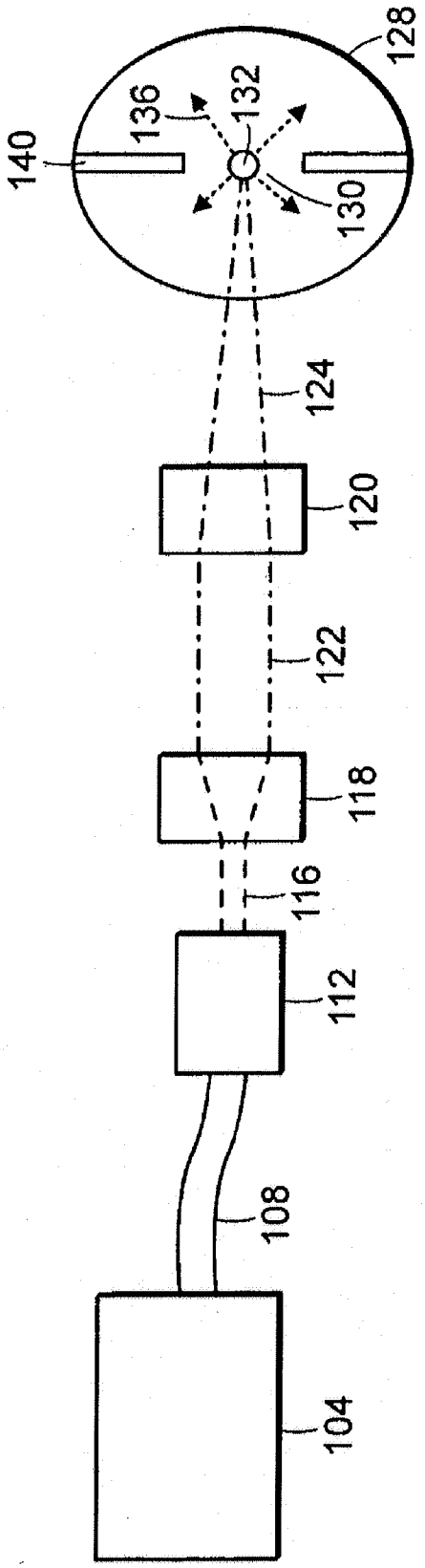

FIG. 1

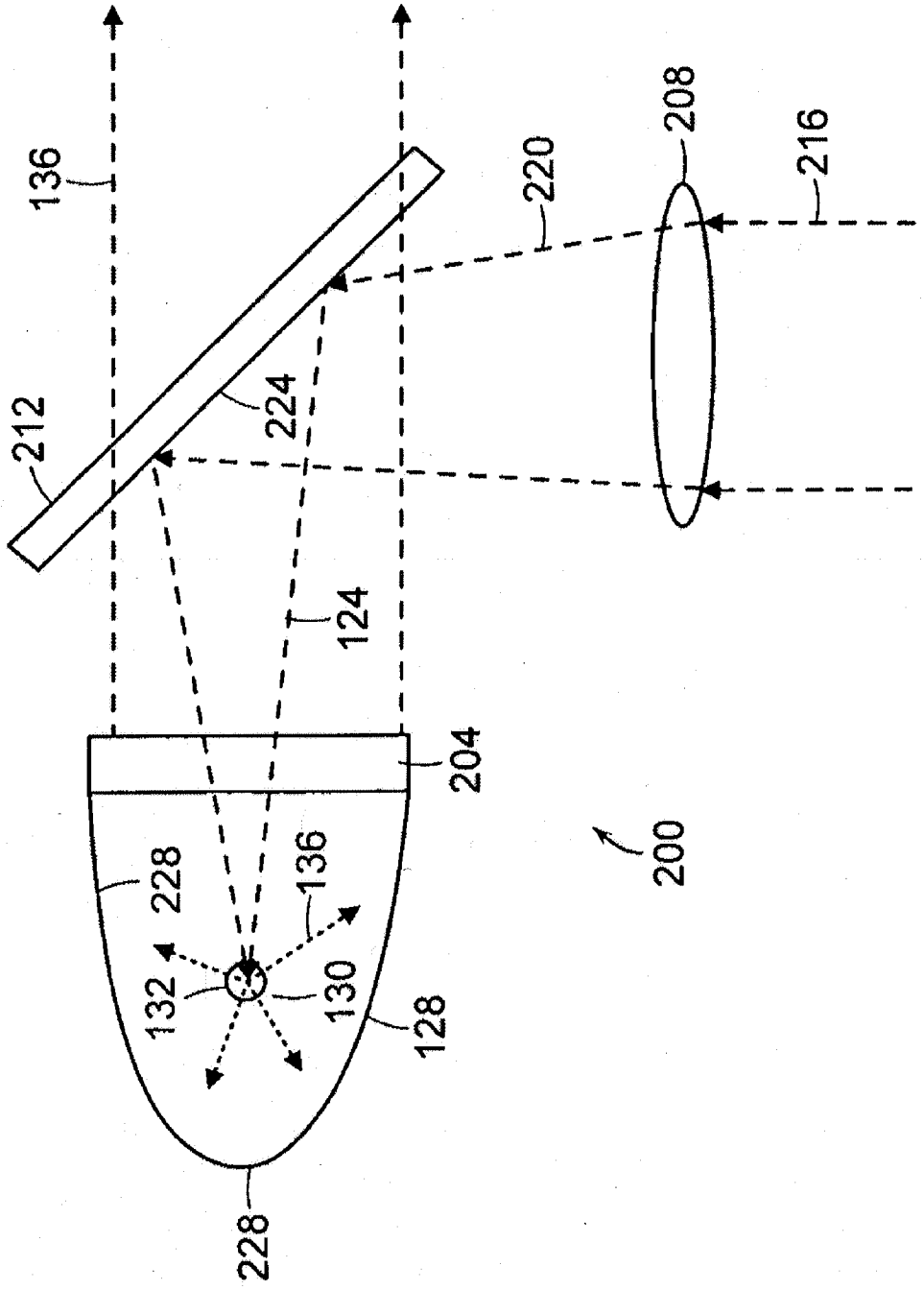

FIG. 2

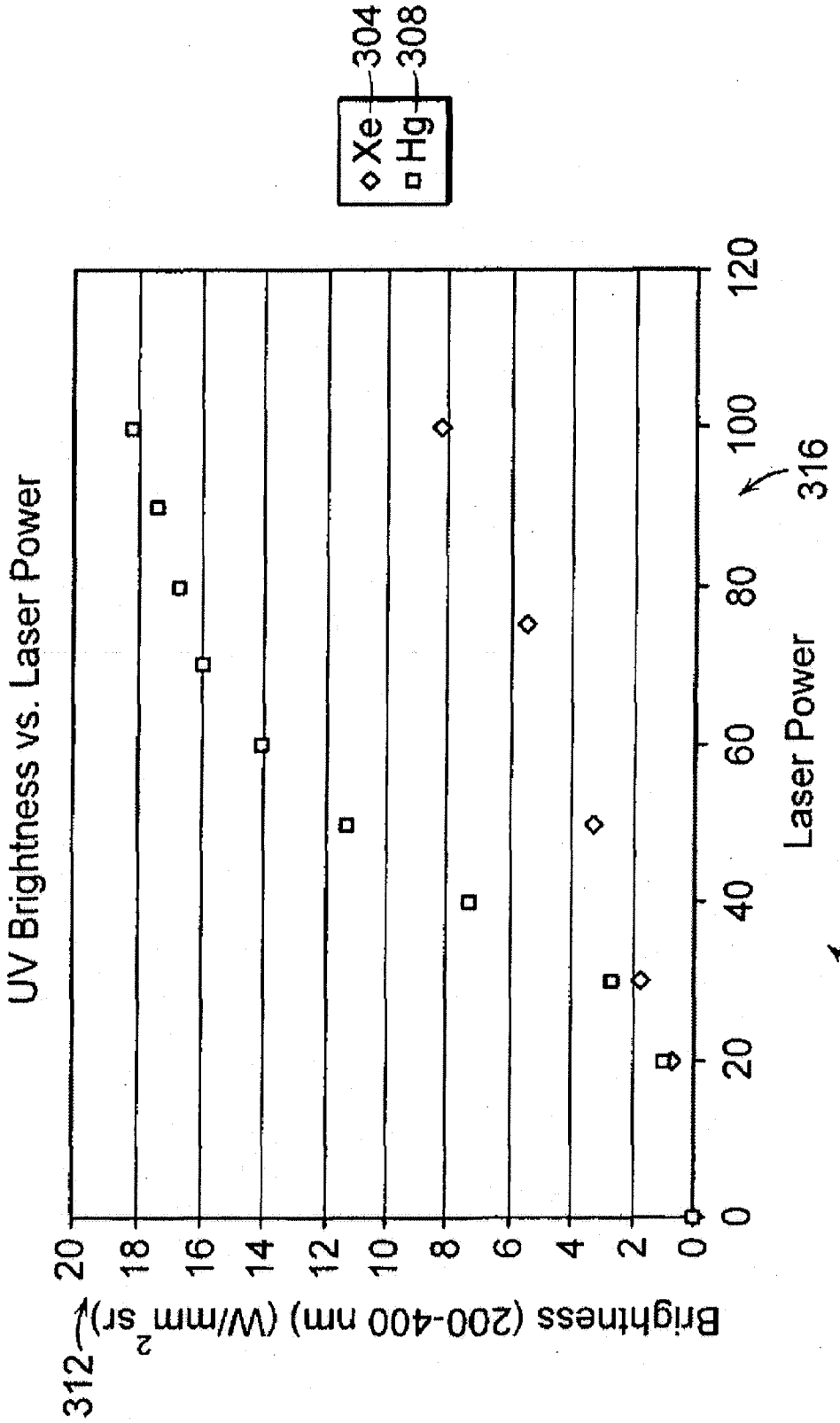

FIG. 3

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