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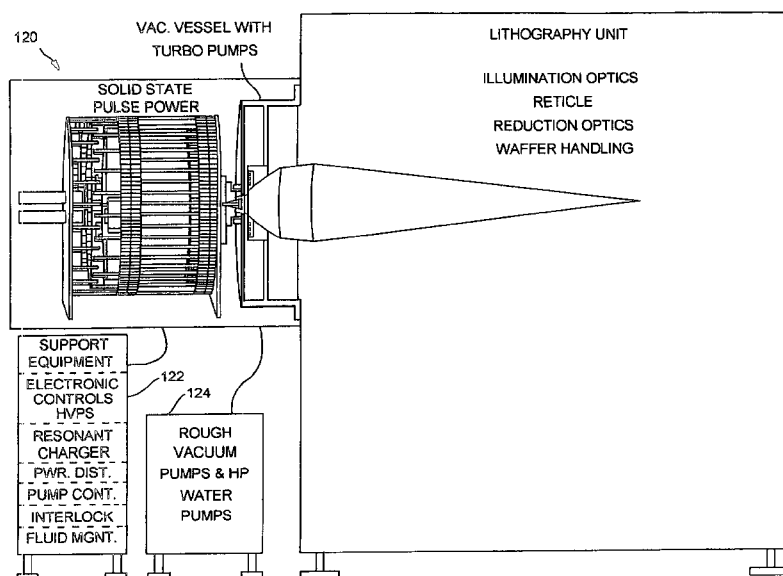
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[Continued on next page]

(54) Title: EXTREME ULTRAVIOLET LIGHT SOURCE



(57) **Abstract:** The present invention provides a reliable, high-repetition rate, production line compatible high-energy photon source. Very hot plasma containing an active material is produced in vacuum chamber. The active material is an atomic element having an emission line within a desired extreme ultraviolet (EUV) range. A pulse power source comprising a charging capacitor and a magnetic compression circuit comprising a pulse transformer provides electrical pulses having sufficient energy and electrical potential sufficient to produce the EUV light at an intermediate focus at rates in excess of 5 Watts. In preferred embodiments designed by Applicants in-band, EUV light energy at the intermediate focus is 45 Watts extendable to 105.8 Watts.



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