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(54) Title: ADDITIVE MANUFACTURING SYSTEM USING A PULSE MODULATED LASER FOR TWO-DIMENSIONAL PRINTING

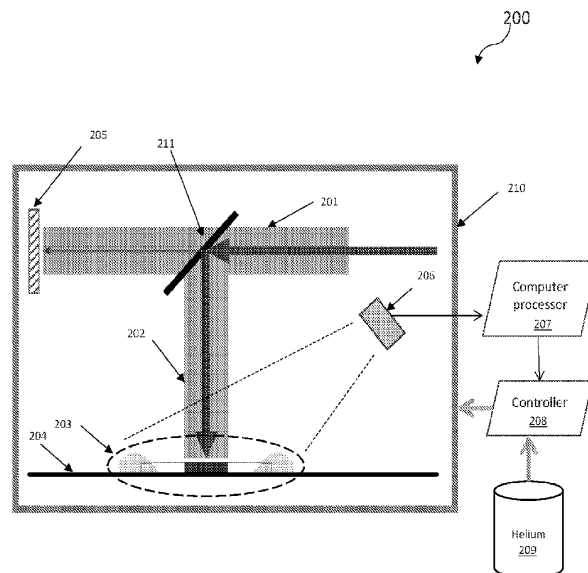


Fig. 2

(57) Abstract: A method of additive manufacture is disclosed. The method may include providing a powder bed and directing a shaped laser beam pulse train consisting of one or more pulses and having a flux greater than 20 kW/cm² at a defined two dimensional region of the powder bed. This minimizes adverse laser plasma effects during the process of melting and fusing powder within the defined two dimensional region.

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