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Prasannavenkatesan

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(54) **DEPOSITION OF METAL DIES FOR PART FABRICATION**

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(58) **Field of Classification Search**

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See application file for complete search history.

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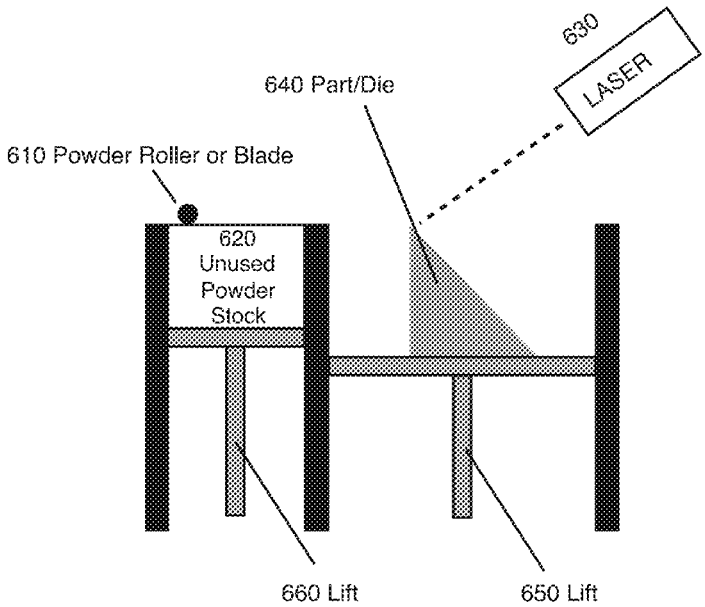
(57) **ABSTRACT**

A method for synthesizing parts using a die comprising: providing a three-dimensional model; converting the three-dimensional model into G-code; executing the G-code to deposit a metal die; determining whether one or more dimensions of the metal die are within predetermined tolerance levels; based on the determination, milling the die if the one or more dimensions are not within predetermined tolerance levels or depositing additional metal if the one or more dimensions are not within predetermined tolerance levels; and synthesizing a part using the metal die.

23 Claims, 8 Drawing Sheets