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(54) Title: LOW-TEMPERATURE CASE HARDENING OF ADDITIVE MANUFACTURED ARTICLES AND MATERIALS AND
TARGETED APPLICATION OF SURFACE MODIFICATION

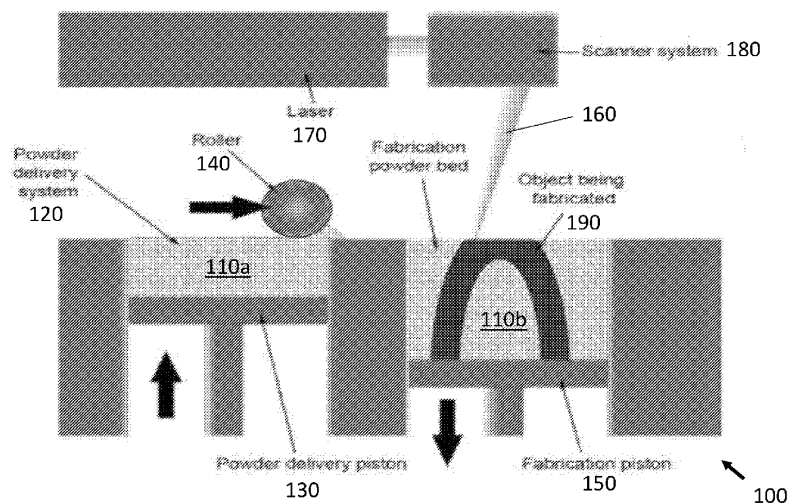


FIG. 1

(57) Abstract: A treated additive manufactured article is disclosed. The article comprises a shaped metal alloy having a treated surface layer and a core. At least one of the average hardness of the treated surface layer is greater than the average hardness of the core, and the average corrosion resistance of the treated surface layer is greater than the average corrosion resistance of the core.

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