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(54) Title: MOUNT SYSTEM, PIN SUPPORT SYSTEM AND A METHOD OF DIRECTED ENERGY DEPOSITION FOR PRODUCING A METAL WORKPIECE TO MITIGATE DISTORTION

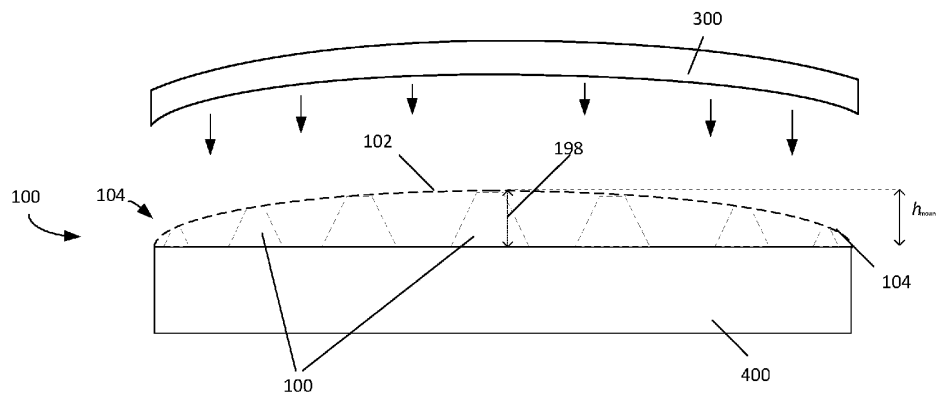


FIG. 2A

(57) Abstract: The present application relates to a mount system (100) and systems and methods using the mount system (100) for manufacturing objects on a substrate (300), especially titanium and titanium alloy objects, by directed energy deposition. The method includes thermally pre-bending the substrate (300) onto which the object is to be manufactured to form a pre-bent substrate (300), attaching the pre-bent substrate (300) to a jig using the mount system (100) as an underlying support, preheating the substrate (300), and forming the object on the pre-heated, pre-bent substrate (300) using a directed energy deposition technique.

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