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(54) **Title**: THREE DIMENSIONAL PRINTER

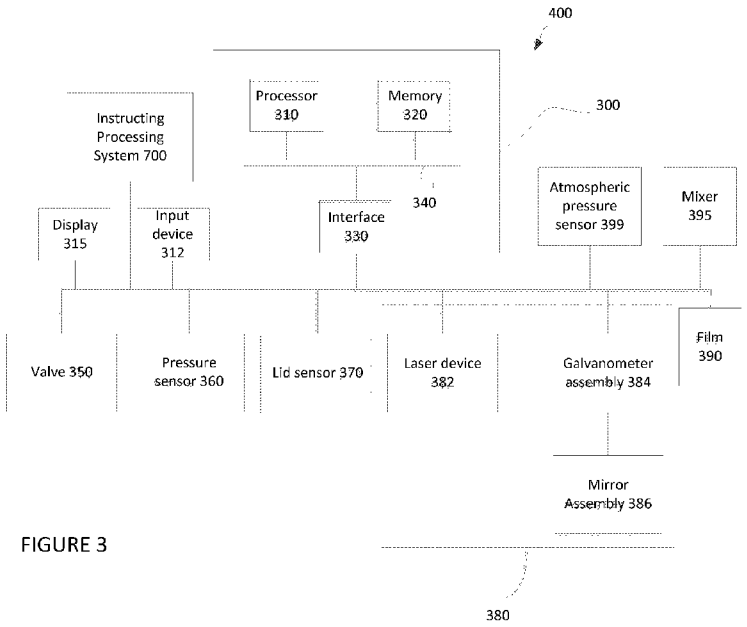


FIGURE 3

(57) **Abstract**: Disclosed is a three-dimensional printer and a method of operating the same. In one aspect the three dimensional printer (400) includes a first vessel (140) in fluid communication with a second vessel (130); a pressure altering device (350); a light source (380); and a controller (300) configured to: control the light source (380) to generate light directed toward a production medium (210) supported by a support medium (200) located within the first vessel to cure a portion of the production medium (230); and control the pressure altering device (350) to induce a flow of support medium (200) between the first and second vessels (140), (130) such as to raise or lower the support medium (200) within the first vessel (140) to enable generation of layers of the cured production medium (230).

WO 2015/131250 A1