

WORKPIECE-ASSEMBLY AND ADDITIVE MANUFACTURING SYSTEMS AND METHODS OF ADDITIVELY PRINTING ON WORKPIECES

ABSTRACT

Provided are workpiece-assemblies, and systems and methods for aligning a plurality of workpieces (112) with a build plane (116). A system may include an alignment plate (402), one or more elevating blocks (404), and a workpiece-assembly (108). A workpiece-assembly (108) may include a build plate (110) that has a plurality of workpiece docks (410), a plurality of workpiece shoes (414) that have a slot (506) configured to receive a portion of one or more workpieces (112) respectively inserted or insertable into the plurality of workpiece docks (410), a plurality of biasing members (516) respectively situated or situatable between the build plate (110) and the plurality of workpiece shoes (414) so as to exert a biasing force upon the workpiece shoes (414), and one or more clamping mechanisms (412) coupled or couplable to the build plate (110) and operable to secure the plurality of workpiece shoes (414) within the respective workpiece docks (410).

[Figure 4]