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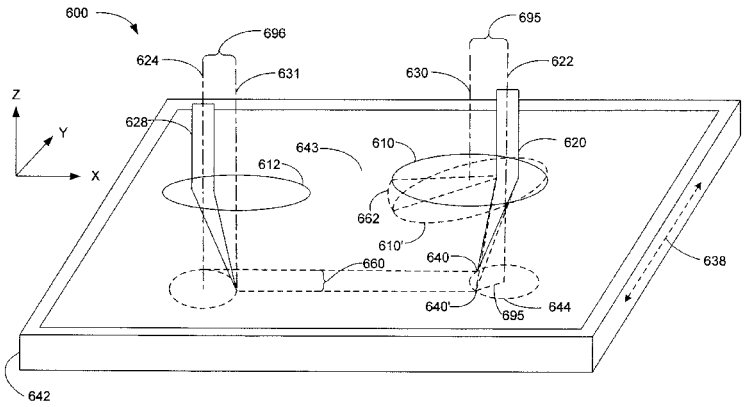
(54) **Title**: ELIMINATING HEAD-TO-HEAD OFFSETS ALONG COMMON CHUCK TRAVEL DIRECTION IN MULTI-HEAD LASER MACHINING SYSTEMS

FIG. 6



(57) **Abstract**: The embodiments disclosed herein provide systems and methods for correcting a head-to-head offset in a laser machining system with two or more processing heads. A focusing lens is associated with each processing head, and is configured to receive an incident laser beam along an incident beam axis of propagation. The incident beam axis of propagation is offset from the primary axis of the focusing lens. The focusing lens is further configured to rotate about the incident beam axis of propagation in order to steer the incident laser beam's path with respect to a workpiece.

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