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(54) Title: SYSTEMS AND METHODS FOR ALIGNMENT AND PLACEMENT OF ELECTRONIC DEVICES ON CARRIER TAPE

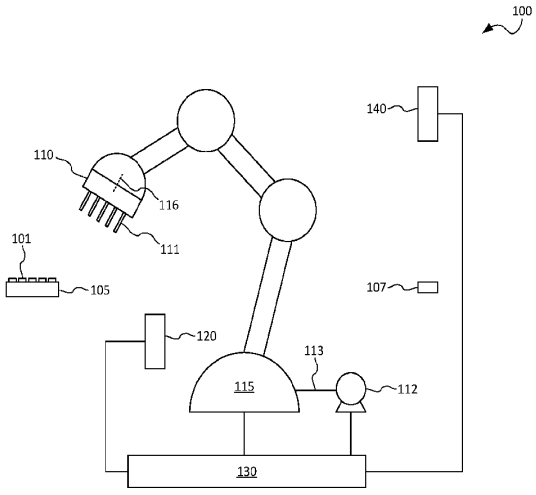

FIG. 1

(57) Abstract: The system includes a taping head configured to extract a plurality of devices from a plurality of tray pockets of a component tray and a first camera configured to capture one or more images of the plurality of devices extracted by the taping head. A processor is configured to determine size and orientation information of each of the plurality of devices extracted by the taping head based on the one or more images of the plurality of devices received from the first camera, determine a placement solution of the taping head to position each of the plurality of devices into the plurality of tape pockets of a carrier tape based on the size and orientation information of each of the plurality of devices, and control the taping head to place the plurality of devices into the plurality of tape pockets of the carrier tape according to the placement solution.

[Continued on next page]

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