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(54) Title: FIXED-POSITION IMAGING SYSTEMS FOR AUTOMATED VISUAL INSPECTION

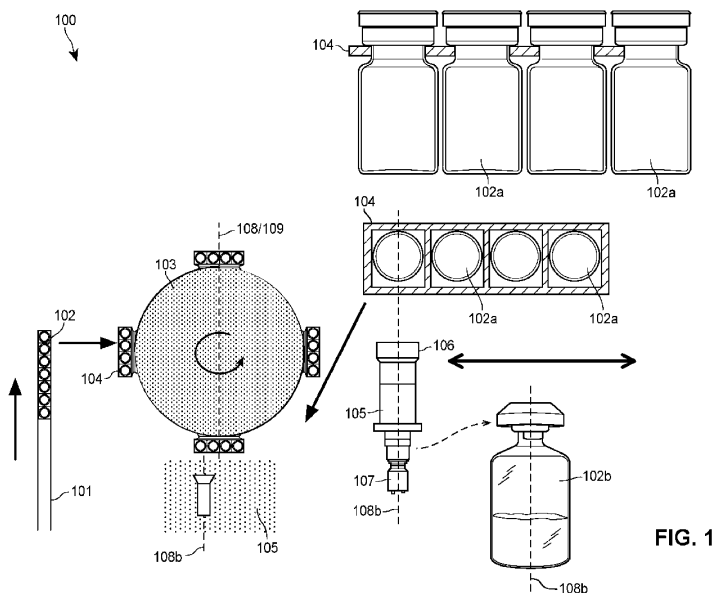


FIG. 1

(57) Abstract: An automated visual inspection (AVI) system of the present disclosure may position a vessel fixture such that a central vessel axis is optically aligned with a central image axis of a fixed-position imaging system. Once the vessel fixture is positioned such that the central vessel axis of the vessel fixture is aligned with the central image axis of the fixed-position imaging system, the fixed-position imaging system may simultaneously capture a first image of a first vessel and a second image of a second vessel. The fixed-position imaging system may capture the first image of the first vessel from the same perspective as the fixed-position imaging system simultaneously captures the second image of the second vessel. The AVI system may analyze the first image and the second image to inspect the first subset of vessels and the second subset of vessels for a same set of one or more features

[Continued on next page]

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