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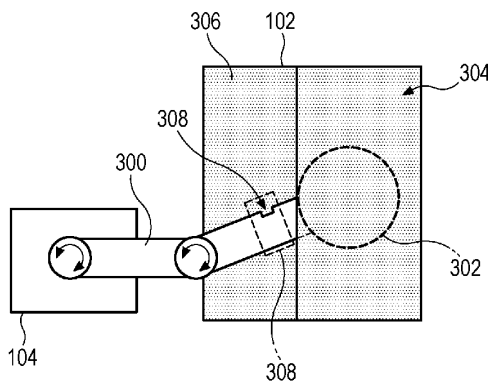
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(54) Title: METHODS AND SYSTEMS OF IMAGE BASED ROBOT ALIGNMENT



(57) Abstract: A system for monitoring alignment of a second component relative to a first component includes a camera, and a controller including a processor and a non-transitory memory. The controller is configured to receive a first captured image from the camera when the second component is in a predetermined position relative to the first component, receive a selection of a region of interest (ROI) in the first captured image, identify a visible feature of the second component within the ROI of the first captured image, receive captured images from the camera during a subsequent operation, identify a second captured image when the second component is expected to be in the predetermined position relative to the first component, and determine if the second component is in the predetermined position relative to the first component based on the second captured image and the identified visible feature of the first captured image.

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