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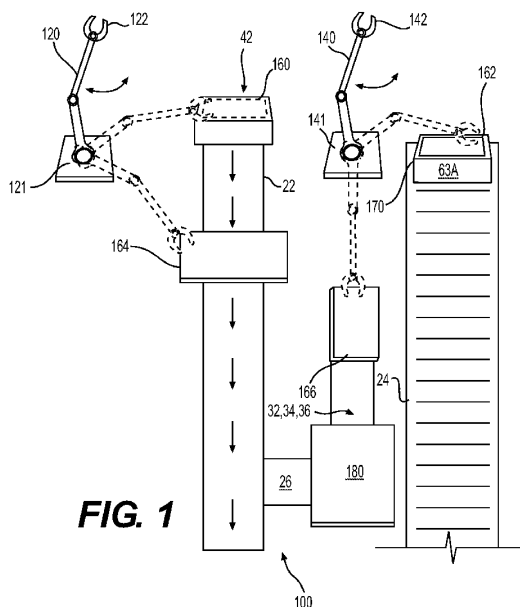
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(54) Title: SYSTEM AND METHOD OF AUTOMATICALLY PICKING AND HANDLING PARTS



(57) Abstract: An automated parts handling system (100) includes a conveyor (22), a robotic arm (120) configured to pick parts from a parts receptacle and place the picked parts on the conveyor (22), a vision device (160, 164) disposed over or adjacent the conveyor and configured to determine the number of parts picked by the robotic arm from the parts receptacle and placed on the conveyor, a memory, and a processor communicatively coupled to the conveyor, the robotic arm, and the vision device. The memory includes program instructions executable by the processor to implement a pick process configured to receive information from the vision device (160, 164) on the number of parts picked by the robotic arm (120) and placed on the conveyor, based on the received information regarding the number of picked parts, selectively control the robotic arm to retrieve from the conveyor a number of the picked parts, and selectively control the robotic arm to place one or more of the retrieved parts back in the parts receptacle when the number of parts picked by the robotic arm differs from a predetermined number of parts specified in the program instructions.

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