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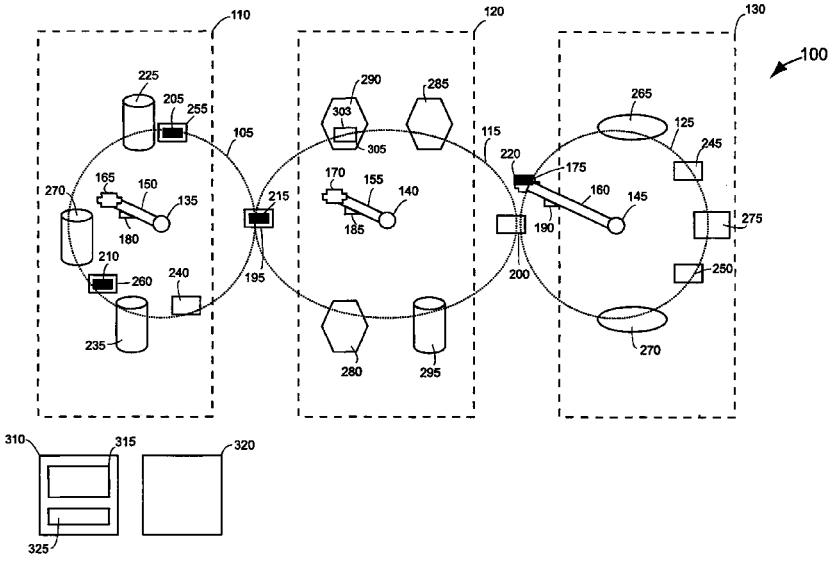
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*[Continued on next page]*

(54) Title: HIGH THROUGHPUT PROCESSING SYSTEM AND METHOD OF USING




(57) Abstract: A system and method for high throughput (100) processing using sample holders (210 and 205). The system has a plurality of work perimeters, with a rotational robot (140) preferably associated with each work perimeter (105, 115 and/or 125). At least one transfer station (195) are is provided between adjacent work perimeters to facilitate robotic transfer of sample holders (210 and 205) from one work perimeter (105, 115 and/or 125) to another area. Each work perimeter typically includes a plurality of defined station location (380, 385, 390, 395, 400 and 405), with each station location is typically configured to receive a device, such as automated instrument or a holding nest. Device components are arranged at selected station locations according to specific application requirements to provide a flexible, robust, reliable, and accurate high throughput (100) processing system.

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