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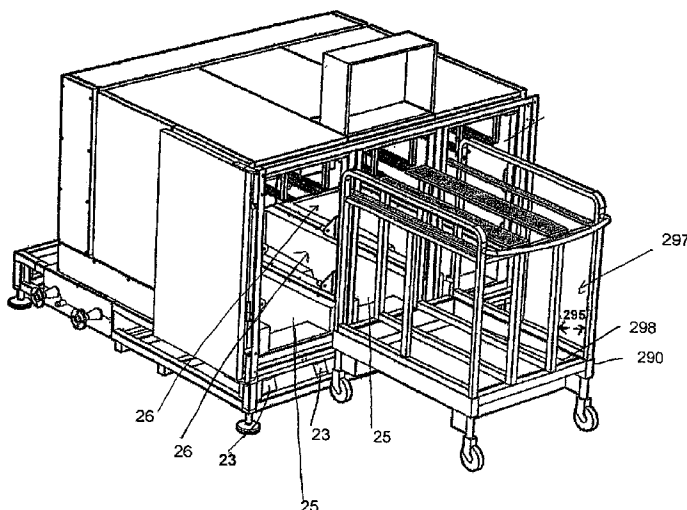
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[Continued on next page]

(54) Title: SYSTEMS AND METHODS FOR FREEZING, MIXING AND THAWING BIOPHARMACEUTICAL MATERIAL



(57) Abstract: A system for controlled freezing, storing and thawing of a biopharmaceutical material includes a cavity (26) for receiving a container (10) for holding the biopharmaceutical material. Further included are at least a pair of opposed surfaces (28) facing the biopharmaceutical material holding container. At least one of the opposed surfaces includes a moveable-contacting surface configured to contact the container to inhibit a clearance between the container and the movable contacting surface. Also included is at least one heat transfer surface which is thermally coupled to the biopharmaceutical material holding container when the moveable-contacting surface contacts the container. Also, the cavity may be configured to receive a frame (15) for supporting the container holding the biopharmaceutical material. Further, the system may include a driver (500) to move the frame holding the container inside the cavity.



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