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(54) Title: IMPROVED BIOMATERIAL FREEZING

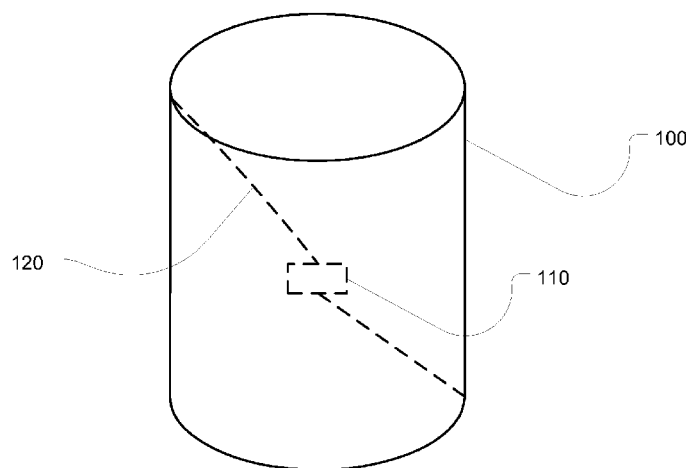


FIG. 3

(57) Abstract: The biocontainer of the present invention provides a low cost, simple solution of many of the problems encountered during shipping, freezing and thawing of biopharmaceutical materials. The present invention enables a user to monitor the temperature profile of each biopharmaceutical container during the cryogenic process, so as to ensure the integrity of materials within each biocontainer by using a pre-installed and pre-sterilized temperature sensor. In some embodiments, the sensor assembly includes a wireless transmitter and is capable of transmitting information regarding the measured reading. In other embodiments, the sensor assembly includes a processing unit, which determines whether the temperature profile is acceptable. In a further embodiment, an indicator is included, such that the processing unit may indicate whether the biopharmaceutical material has been properly frozen. In other embodiments, the sensor assembly also includes a storage element, which is capable of storing various parameters during the freezing process.





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