

## RECENT PATENT APPLICATIONS RELATING TO CRYOGENIC/LOW TEMPERATURE STORAGE AND TRANSPORT OF BIOLOGICALS AND/OR VACCINES

We present snapshots from some publications published in 2020 on this concept.

Publication No

•SG11202009243S

Title

•Automated Cryogenic Storage and Retrieval System

Summary

•A cryogenic storage system includes a transfer module configured to service one or more cryogenic storage freezers. It includes a working chamber that maintains a cryogenic environment for the transfer of sample tubes between different sample boxes. One or more freezer ports enable the transfer module to receive a sample box extracted from a respective freezer.

Publication No

•EP3719421

Title

•Transportable Container-structure for Cryoconservation of Biological Materials

Summary

•The invention concerns a transportable container-structure for cryoconservation of biological materials comprising a container comprising a main compartment containing cryogenic reservoirs for storing biological materials, and at least one distribution line for distributing a cryogenic fluid to the cryogenic reservoirs.

Publication No

•US20200116422; US20200116423;  
US20200103162; CN111404983;  
CN111404985; CN111404984

Title

•Systems and Methods for Remotely Monitoring the Cryogenic Processing of Samples

Summary

•The present invention relates to a system for remotely monitoring cryogenic processing of a sample comprising a remote server which is configured to transmit sample profile data and to receive detected sensor data. The remote server transmits thawing profile data to one or more thawing devices, freezing profile data to one or more freezers, or transportation profile data to one or more transportation devices.

Publication No

•CN110697219

Title

•Low-temperature storage box for vaccine cold chain conveying

Summary

•The invention discloses a low-temperature storage box for vaccine cold chain conveying. The low-temperature storage box can perform single fixed refrigeration on vaccines to prevent breakage of the vaccines caused by the vehicle shaking collision in the conveying process; a refrigerator can singly refrigerate the vaccines in the low-temperature storage box, so that the excellent refrigerating effect is achieved.

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