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(57) Abstract :
The present invention relates to a temperature-controlled container (100) for storing a variety of items, including edible products and medicines to preserve freshness, quality, and safety of the stored items. The container (100) includes a body (102) to accommodate the items and an insulating lid 104 with a sealing mechanism to provide an airtight seal, effectively preventing contaminants from entering and maintaining the freshness and moisture-free environment. Additionally, the container 100 incorporates a display unit (106) that enables user to set the desired temperature for the container and specify an expiry date for the stored items, and correspondingly a control unit (112) controls a temperature control unit (108) and the alert unit (110). Furthermore, the container incorporates sensors (114) capable of detecting contaminants in the stored items, thus ensuring safety. Furthermore, the container (100) maintains an optimal moisture level, thereby preserving the quality and freshness of the stored items.

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