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(57) Abstract :

The fan cum cooling container (100) is a groundbreaking solution for vegetable and fruit preservation, tailored for rural and resource-limited regions. It boasts a specialized storage area (102) that creates a humidity-regulated environment to prolong the freshness of perishables. Two essential water reservoirs (110a-110b) situated at the top and bottom of the storage area hold water for cooling. Strategically placed racks (104) inside the storage area provide efficient organization and support for stored produce. This container prioritizes accessibility, affordability, and sustainability, particularly for rural communities. Driven by solar power, a fan (110) is operated by a photovoltaic cell (116) and supported by a battery (118). It incorporates lids (122) and dried grass cooling pads for enhanced cooling, ensuring efficient perishable item preservation. An LED (124) illuminates the storage area, facilitating easy access to fruits and vegetables.

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