

## **Abstract**

### **BOX LUNCH VENDING MACHINE AND WORKING METHOD THEREOF**

The present application relates to a box lunch vending machine and the working method thereof, wherein the box lunch vending machine comprises a box body, wherein the box body comprises a plurality of exits; a storage shelf arranged in the box body, wherein the storage shelf comprises a multi-layer supporting mechanism and each mechanism is arranged for placing box lunch; a plurality of liquid-conducting grooves arranged in the box body, wherein the liquid-conducting groove one-to-one corresponds to the supporting mechanism and contains heat-conducting medium for heating the box lunch; and a lifting device configured to drive the storage shelf to rise and fall, when the lifting device drives the storage shelf down to the first position, the supporting mechanisms are all immersed into the corresponding the liquid-conducting groove; when the lifting device drives the storage shelf up to the second position, all the supporting mechanisms leave the liquid-conducting groove and are located at the same height as the corresponding exit. This box lunch vending machine can effectively improve the pick-and-place efficiency of the box lunch and shorten the waiting time of users.

FIG. 1