

ABSTRACT

A smart vending apparatus and a control method thereof. The apparatus comprises: a cabinet (10) provided with a product shelf (102) configured to display items for sale, the items carrying item information tags; a door (20) installed on the cabinet (10) and provided with identity information tags (302), the tags (302) being scanned by a mobile terminal apparatus to acquire identity information of the smart vending apparatus and to send the same to a server for authentication; a sealing ring (70) for engaging with the cabinet (10) and the door (20) to form an electromagnetically shield space; and a main control system provided within the cabinet (10) and having a tag scanner (304) and a communication device (306) being respectively connected to a central processor (302) thereof. The communication device (306) is configured to establish a communication connection between the central processor (302) and the server. Upon receiving a door-opening instruction sent by the server after the server authenticates the identity information, the central processor (302) controls the door (20) to switch from a closed state to an open state. After the door (20) switches from the open state to the closed state, the tag scanner (304) scans all item information tags in the cabinet (10) to determine current inventory information and stores the same in a memory device. The smart vending apparatus is more convenient for users to operate.

Fig. 1