

ABSTRACT

BOX LUNCH VENDING MACHINE

5 The present application relates to a box lunch vending machine, which comprises a box body
which is provided with a plurality of exits; a storage shelf arranged in the box body and
comprises a plurality of spaced supporting mechanisms, wherein each supporting mechanism is
provided with a plurality of storage units; a rotating device comprising a motor and a
transmission assembly, wherein the motor can drive the storage shelf to rotate by the
10 transmission assembly; a detecting device comprising a detecting element and a sensing plate,
wherein the detecting element comprises the first sensor and the second sensor that are arranged
with an interval, the sensing plate can rotate synchronously along with the storage shelf, a
plurality of locating teeth are circumferentially arranged on the sensing plate, and each locating
tooth corresponds to one storage unit; each locating tooth comprises the first locating tooth and
15 the second locating tooth, the first locating tooth can be detected by one of the first sensor and
the second sensor, and the second locating tooth can be detected by both the first sensor and the
second sensor at the same time.

Fig. 11

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