CLAIMS

1. A computer-implemented method, comprising:

controlling a lift table to move from a first position to a second position, wherein the first position is higher than the second position, and the lift table is located inside a payment box;

determining that the lift table is at the second position;

in response to determining that the lift table is at the second position, determining that a removable cover plate is in a first state, wherein the removable cover plate and the payment box form an enclosed space when the removable cover plate is in the first state, and a top of the payment box is open when the removable cover plate is in a second state;

reading, using at least one radio frequency identification (RFID) antenna inside the payment box, at least one RFID tag associated with at least one merchandise item located in the enclosed space; and

providing payment information based on the at least one RFID tag.

2. The computer-implemented method of claim 1, wherein the enclosed space is an electromagnetic shielding space.

3. The computer-implemented method of claim 1, further comprising:

receiving, from a user, payment associated with the payment information; and

determining that the removable cover plate is in the second state.

4. The computer-implemented method of claim 3, wherein receiving, from the user, the payment associated with the payment information comprises:

capturing identification information of the user, wherein the identification information of the user includes at least one of identity card information of the user, face information of the user, fingerprint information of the user, and quick response (QR) code identification information of the user; and

transmitting the identification information of the user to a payment server.

5. The computer-implemented method of claim 3, wherein determining that the removable cover plate is in the second state comprises:

receiving an instruction from the user; and

controlling the removable cover plate to move from the first state to the second state based on the instruction.

6. The computer-implemented method of claim 3, wherein after determining that the removable cover plate is in the second state, the method further comprises:

controlling the lift table to move from the second position to the first position.

7. The computer-implemented method of claim 1, wherein before controlling the lift table to move from the first position to the second position, the method further comprises:

detecting that the at least one merchandise item is placed inside the payment box when the removable cover plate is in the second state;

determining that the at least one merchandise item inside the payment box does not change for a predetermined time period; and

controlling the removable cover plate to move from the second state to the first state.

8. The computer-implemented method of claim 7, wherein the detecting is performed by an infrared detection frame or a pressure sensor, the infrared detection frame is located at an opening of the payment box, and the pressure sensor is located on a bottom of the payment box.

9. A non-transitory computer-readable storage medium coupled to one or more computers and configured with instructions executable by the one or more computers to:

control a lift table to move from a first position to a second position, wherein the first position is higher than the second position, and the lift table is located inside a payment box;

determining that the lift table is at the second position;

in response to determining that the lift table is at the second position, determine that a removable cover plate is in a first state, wherein the removable cover plate and the payment box form an enclosed space when the removable cover plate is in the first state, and a top of the payment box is open when the removable cover plate is in a second state;

read, using at least one radio frequency identification (RFID) antenna inside the payment box, at least one RFID tag associated with at least one merchandise item located in the enclosed space; and

provide payment information based on the at least one RFID tag.

10. The non-transitory computer-readable storage medium of claim 9, wherein the enclosed space is an electromagnetic shielding space.

11. The non-transitory computer-readable storage medium of claim 9, further configured with instructions executable by the one or more computers to:

receive, from a user, payment associated with the payment information; and

determine that the removable cover plate is in the second state.

12. The non-transitory computer-readable storage medium of claim 11, wherein receiving the payment associated with the payment information includes:

capturing identification information of the user, wherein the identification information of the user includes at least one of identity card information of the user, face information of the user, fingerprint information of the user, and quick response (QR) code identification information of the user; and

transmitting the identification information of the user to a payment server.

13. The non-transitory computer-readable storage medium of claim 11, wherein determining that the removable cover plate is in the second state comprises:

receiving an instruction from the user; and

controlling the removable cover plate to move from the first state to the second state based on the instruction.

14. The non-transitory computer-readable storage medium of claim 11, wherein after determining that the removable cover plate is in the second state, the non-transitory computer-readable storage medium is further configured with instructions executable by the one or more computers to:

control the lift table to move from the second position to the first position.

15. The non-transitory computer-readable storage medium of claim 9, wherein before controlling the lift table to move from the first position to the second position, the non-transitory computer-readable storage medium is further configured with instructions executable by the one or more computers to:

detect that the at least one merchandise item is placed inside the payment box when the removable cover plate is in the second state;

determine that the at least one merchandise item inside the payment box does not change for a predetermined time period; and

control the removable cover plate to move from the second state to the first state.

16. The non-transitory computer-readable storage medium of claim 15, wherein the detecting is performed by an infrared detection frame or a pressure sensor, the infrared detection frame is located at an opening of the payment box, and the pressure sensor is located on a bottom of the payment box.

17. A system, comprising:

one or more computers; and

one or more computer-readable memories coupled to the one or more computers and configured with instructions executable by the one or more computers to:

control a lift table to move from a first position to a second position, wherein the first position is higher than the second position, and the lift table is located inside a payment box;

determine that the lift table is at the second position;

in response to determining that the lift table is at the second position, determine that a removable cover plate is in a first state, wherein the removable cover plate and the payment box form an enclosed space when the removable cover plate is in the first state, and a top of the payment box is open when the removable cover plate is in a second state;

read, using at least one radio frequency identification (RFID) antenna inside the payment box, at least one RFID tag associated with at least one merchandise item located in the enclosed space; and

provide payment information based on the at least one RFID tag.

18. The system of claim 17, wherein the enclosed space is an electromagnetic shielding space.

19. The system of claim 17, wherein the one or more computer-readable memories are further configured with instructions executable by the one or more computers to:

receive, from a user, payment associated with the payment information; and

determine that the removable cover plate is in the second state.

20. The system of claim 19, wherein receiving the payment associated with the payment information includes:

capturing identification information of the user, wherein the identification information of the user includes at least one of identity card information of the user, face information of the user, fingerprint information of the user, and quick response (QR) code identification information of the user; and

transmitting the identification information of the user to a payment server.