

Introduction to Inventions and Creations

The name of the work: Automatic pumping paper machine

Field: Food

Source of inspiration for invention:

From life--I found that when eating hot pot in a hot pot restaurant, people always pass paper towels to each other, which is very troublesome, and the paper towels are easy to fall into the pot, which will ruin a pleasant meal; in addition, multiple paper towels are placed On the desktop, it will affect the space for placing the dinner plate; and when the amount of paper towels is relatively small, they are not easy to be drawn out; the most important thing is that the heat of the hot pot is high. I think it can have other uses and should not be wasted. Its energy.

Improve life--so I want to design a paper towel box that can avoid trouble.

Production process:

- (1) Use 3d printing to first print and shape the outer shell of the tissue box, and design the paper bin and parts bin;
- (2) Design rollers, paper feeding components and sensing components in the paper output bin;

- (3) Design motors, batteries, and thermoelectric generators in the parts warehouse;
- (4) Carry out circuit connection and testing of various parts and devices;
- (5) Use hot melt adhesive to fix each component, cover and perform final test.

The function of the work:

The four corners of the hot pot table are equipped with automatic paper pumping machines, which do not need to be transferred and will not occupy desktop space; the paper towel box adopts an inverted method, uses an electric motor to drive the motor, and adds an induction device to automatically eject paper when reaching out to avoid taking paper. The difficult problem is that the heat of the flame is used to generate electricity by temperature difference, and the electricity is stored in the battery in the tissue box to drive the motor.

Advantages of the work:

- (1) No need to transfer paper towels, easy to use;
- (2) The paper output is fixed to avoid wasting paper towels;
- (3) Induction of paper output, with intelligence;
- (4) Make full use of flame to save and environmental protection.

Remarks:

(1) This work is designed for automatic paper output. In the actual operation process, you must operate according to the usage method. Remember to pull the paper towel strongly to avoid damage to the internal mechanical structure.

(2) This work is currently in the model stage. It is not an actual product and cannot be waterproof. In actual testing, avoid contact with water sources to prevent short circuits in internal circuits.

