

TITLE OF INVENTION: MECHANICAL GRIPPER FOR COFFEE POWDER SPOON WITH A CUP FORK

Abstract

Disclosed is a mechanical gripper for coffee powder spoon with a cup fork, comprising a mechanical arm powder spoon gripper base and a coffee powder spoon gripper; wherein the coffee powder spoon gripper is detachably connected to the mechanical arm powder spoon gripper base; the mechanical arm powder spoon gripper base comprises a gripper connecting base, the gripper connecting base is connected to the front end of a mechanical arm by a connecting flange, a mounting cavity is provided inside the gripper connecting base, an electromagnet is mounted inside the mounting cavity, and a cup fork is connected to a lower part of the gripper connecting base; and the coffee powder spoon gripper comprises a powder spoon connecting flange, a magnetic attachment block is fixed inside the powder spoon connecting flange, the powder spoon connecting flange is connected to one end of a connecting tube, and the other end of the connecting tube is connected to a coffee powder spoon. Different from an electric, pneumatic and hydraulic grippers used by a general mechanical arm, the present apparatus uses an electromagnet attachment principle; the gripper in such a connection manner has a simple structure and reliable function, facilitates gripper switching, has a low cost and has fewer matching facilities.

Fig. 1