

ABSTRACT

Disclosed is a beverage bottle sorting device, including a mounting plate on which a motor is mounted. A driving shaft is mounted at a power output end of the motor, a guide plate is fixedly mounted on the driving shaft, a rotation angle control assembly is provided between the guide plate and mounting plate to control the rotation angle of the driving shaft and then to control the rotation angle of the guide plate, so as to sort a beverage bottle entering the guide plate to an adapted recycling bin. The motor drives the guide plate to move to sort pre-recognized classes of beverage bottles of different materials into corresponding recycling bins. The rotation angle control assembly controls rotation angles and positions of the driving shaft and guide plate to prevent sorting failure or erroneous sorting of beverage bottles due to excessive or insufficient rotation of the guide plate.

Fig. 1