

ABSTRACT

Provided is a beverage container sorting and recycling device, comprising a bottle feeding port, a conveying mechanism, an AI recognition mechanism, a sorting mechanism, and a material storage bin. The AI recognition mechanism is arranged on the periphery of the conveying mechanism, and a light source is further arranged on the periphery of the AI recognition mechanism. The sorting mechanism is mounted on one side of the conveying mechanism. The material storage bin comprises a glass bottle material storage bin, a plastic bottle material storage bin, and a can material storage bin. The sorting mechanism sorts a beverage container to a corresponding material storage bin according to the recognition result of the AI recognition mechanism. The device can achieve more accurate classification and storage of containers, improve recycling rate, and alleviate environmental pressure.

Fig. 2