

ABSTRACT OF THE DISCLOSURE

A waste glass bottle color-classification apparatus includes a bucket conveyor having a plurality of buckets each with an openable bottom plate and transferring waste glass bottles supplied in the buckets, a bottle color discrimination means for optically sensing a waste glass bottle supplied in the bucket to discriminate the bottle color, a plurality of delivery chutes for discharging the bottles and for separating the bottles respectively into one of the chutes corresponding to the bottle color or into a chute for receiving the remaining bottles that can not be discriminated in color, a bucket sensor for sensing the pass of the bucket on the conveyor, and a load condition determination means for sensing the load condition of each bucket on the conveyor. Another waste glass bottle color-classification apparatus includes a bottle orientating means for orientating a plurality of waste glass bottles in the longitudinal direction of each bottle, and a bucket conveyor having a plurality of buckets each of which can receive one of the bottles supplied from the bottle orientating means to transfer the bottles substantially in a perpendicular direction to the longitudinal orientated direction of the bottles, each bucket having an openable bottom plate. The presence or absence of a bottle standing in each bucket is sensed during the transfer by the conveyor to preclude the bottle that is determined to be a standing bottle by discharging the bottle into a delivery chute.

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