

A SYSTEM FOR COLLECTING AND MONITORING RECYCLABLE MATERIALS

Abstract

There is a system for collecting recyclable materials. The system comprises a housing having a first portion and a second portion. The first portion of the housing is separated from the second portion via a divider. The system comprises an opening mounted on an exterior of the first portion of the housing and adapted to receive a recyclable material. The opening has a window that is moveable between an open position, in which the recyclable material may be inserted through the opening and a closed position, in which no recyclable material may be inserted through the opening. The system comprises a tube having a first end and a second end, the first end extending from the opening into an interior of the first portion of the housing. The system comprises a first sensor mounted on the tube, the first sensor being configured to detect the presence of the recyclable material deposited within the tube and an actuating mechanism operatively connected to the window of the opening. The system comprises a controller disposed in the first portion and operatively connected to the first sensor, the controller being configured to activate the actuating mechanism to move the door between the open and the closed position.

FIG. 2