Claims:

1. A system for collecting recyclable materials, comprising:

a housing having a first portion and a second portion, the first portion being separated from the second portion via a divider;

an opening mounted on an exterior of the first portion of the housing and adapted to receive a recyclable material, the opening having 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;

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;

a first sensor mounted on the tube, the first sensor being configured to detect the presence of the recyclable material deposited within the tube;

an actuating mechanism operatively connected to the window of the opening; and

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 window between the open and the closed position.

2. The system of claim 1, further comprising an electronic device configured to allow registration of a user and to communicate with the controller.

3. The system of any one of claims 1 or 2, wherein the actuating mechanism is a gear mechanism.

4. The system of any one of the preceding claims, wherein the second end of the tube has a door such that in a closed position of the door, the recyclable material is housed within the tube.

5. The system of claim 4, wherein the first sensor upon detection of the presence of a recyclable material in the tube, sends a signal to the controller to swing the door

to an open position, in which the recyclable material leaves the tube.

6. The system of claim 5, wherein the divider has a cutout so sized and shaped to receive the recyclable material that leaves the tube.

7. The system of claim 4, further comprising a bag disposed in the second portion, wherein the bag is adapted to store one or more recyclable materials.

8. The system of any of the preceding claims, further comprising a second sensor disposed adjacent to the opening, the second sensor being configured to detect an obstruction in the window of the opening.

9. The system of any one of claim 4 or 5, further comprising one or more servo motors configured to swing the door between the open and closed position.

10. The system of claim 2, wherein the electronic device is a tablet mountable to the exterior of the first portion.

11. The system of claim 2 or 10, wherein the electronic device has at least one image capture device positioned at the rear of the tablet, facing the interior of the first portion.

12. The system of any one of claims 2 to 9, wherein the electronic device is an electronic keypad electrically connected to the controller.

13. The system of claim 11, wherein the image capture device is configured to scan an identification means and to send such data to the controller.

14. The system of claim 13, wherein the identification means is a barcode or a QR code.

15. The system of claim 13, further comprising a prism arranged to redirect an image of the identification means to the image capture device.

16. The system of any of the preceding claims, further comprising a power source.

17. The system of claim 16, wherein the power source is a battery.

18. The system of claim 16, wherein the power source is an external AC/DC source.

19. The system of any of the preceding claims, wherein the housing is fitted with a plurality of wheels.

20. The system of claim 1, wherein the first sensor is an ultrasonic sensor.

21. The system of claim 7, wherein the second sensor is a Lidar sensor.

22. A roller cage comprising the system according to any of the preceding claims.