ABSTRACT

SYSTEM AND METHOD OF CONVERTING WASTE MATERIALS INTO REUSABLE BYPRODUCTS

The present invention discloses a system and method to manage landfill waste by efficient waste sorting and processing. The invention utilizes selected microorganisms which is capable of fully degrading petroleum-based plastics, hence reducing microplastic pollution in the environment. The present invention also describes a method of extracting cellulose-based bioplastics from the outputs produced resulting from the microorganism's activities. The extracted bioplastic is safe for human consumption and is capable of fully degrading under normal environmental conditions. The system and method used in the present invention has a high material recovery rate, between a range of 80 to 100 percent (%).

Figure 1