

Abstract**A System for Biodegrading Biopolymer Packaging and a Method of Biodegrading Biopolymer Packaging**

A system for biodegrading a biopolymer packaging comprising a crusher to crush the biopolymer packaging into one or more portions and a chamber to receive the one or more portions from the crusher. The chamber has a heat source, an air source to supply oxygen into the chamber, a first inlet to supply water into the chamber, and a second inlet to feed one or more microorganisms into the chamber. One or more mixing members is disposed within the chamber. The temperature in the chamber is maintained at a range of 40°C to 70°C and the humidity is maintained at a range of 43 to 58%. A pH level of the chamber is maintained at a range of 5 to 8. The one or more portions is mixed continuously with oxygen, water and the one or more microorganisms to form an output matter.

FIG. 1