

Intelligent and universal process and system for solid waste treatment

Abstract

The present invention is directed to an intelligent and universal process and system for treating solid wastes, wherein said solid wastes include but are not limited to incineration bottom ash, incineration fly ash, sewage sludge, sewage sludge incineration ash, industrial slag, spent catalyst, contaminated soil, sediment, and wastewater treatment sludge, all of which contain heavy metals, organic pollutants, and/or soluble salts. The process and system disclosed herein employs artificial intelligence and computing algorithm to enhance solid waste treatment efficacy and efficiency. Treating solid wastes according to the process and system described herein enables the person skilled in the art to meet waste disposal and/or utilization standards. Practical outcomes may include curtailment of environmental contamination, transformation of wastes into resources, and extension of landfill lifespan.

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5