

ABSTRACT

SYSTEM FOR SOLID WASTE TREATMENT BY THERMAL HYDROLYSIS AND METHOD FOR SOLID WASTE TREATMENT THAT USES SAID SYSTEM

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10 The present specification discloses an autoclave assembly, a thermal hydrolysis solid waste treatment system comprising at least two autoclave assemblies, and a thermal hydrolysis solid waste treatment method by means of the thermal hydrolysis solid waste treatment system. The present invention solves all the problems exhibited in the treatment of “complex” solid waste (composition of fibrous materials such as textiles, plastics), with advantages such as: being able to use a single inlet/outlet point of the treatment vessel located at the bottom portion, which saves on infrastructure; taking advantage of the storage capacity of the vertical arrangement; using conveyor systems that allow good fluid dynamics without clogging, which prevents the entanglement of fibrous materials; and using a system designed to move all the solid waste accumulated in the vertical vessel, which allows an internal recirculation during treatment that substantially improves heat transfer.

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