



Abstract

A French company specialised in urban water treatment has developed a patented process designed to reduce wastewater sludge in water treatment plants. The company is looking for technical cooperation and potential commercial agreements including technical assistance.

Description

This patented process is designed to reduce sludge coming from wastewater treatment in a rate of roughly 30%. The sludge is sent to a reactor where a high level of specific mushrooms and bacteria are present. These mushrooms are naturally present in the sludge but a specific blend of mushrooms has been selected. The specific equipment which must be implemented includes: a reactor, a thickening equipment, a bioreactor which is useful to maintain the right level of mushrooms in the reactor and finally an aeration system.

Innovations and advantages of the offer

Other processes like anaerobic digestion or thermal treatment are considered too expensive for small wastewater treatment plants nowadays. This sludge reduction process using mushrooms and bacteria is well suited for plants treating wastewater coming from a maximum of 50000 inhabitants. Here are the main advantages of the system:

- A high rate of sludge reduction of around 30%,
- Simplicity in terms of construction which means low-cost construction as well,
- No sophisticated equipment, instrumentation or automatism,
- Reliability since several plants already use it,
- A 100% biological process: mushrooms are already present in the sludge,
- Only a few odours generated from the sludge treatment.

Current and Potential Domain of Application

Any wastewater plant where sludge reduction is needed and where neither standard digestion nor high technology systems are wished for any reason (budget reasons, operational difficulties, architectural integration...)

For further information (including IPR status)

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