



**Audubon Sugar
Institute**

Disclosure Ag-0918

Turbulence Reducing Clarifier

Inventors: Vadim Kochergin, Cy Gaudet

Description:

LSU AgCenter scientists have developed a clarifying device that separates solid particles from liquid suspensions. Turbulent eddies are not created when liquid enters the clarifier, which increases the separation efficiency by preventing solids from being carried over into the clear liquid. The design also allows solids to settle faster and decreases the residence time in the system. The new clarifiers are estimated to cost 30-50% less compared with state-of-the-art clarifiers. It is also much simpler and easier to maintain.

Advantage:

- Higher efficiency, faster separation
- Smaller size
- Low installation cost

Commercial Uses:

- Potable water and wastewater treatment
- Sugar industry
- Mining clarifier



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