



Technology 434: Water Purification Catalyst

The technology is a rapid water purification method capable of low cost recovery of approximately 65% of typical household waste water converting it to near drinkable quality with minimum chemical and power use. The system is also capable of purifying industrial effluents to disposable quality and converts most other industrial wastewater to be re-usable.

- Water is purified to a level that can be re-used for domestic washing and cleaning needs.
- Removes bacteria, odors, turbidity, color, sulphides, organic matter, oil, grease and other contaminants and delivers clear purified water for reuse for domestic, horticulture or agricultural purposes.
- Meets purification criteria for effluent water including BOD (Biological Oxygen Demand), COD (Chemical Oxygen Demand), pH (acidity and alkalinity) and TSS (Total Suspended Solids).
- Based on two unique chemical compounds that control practically all parameters of waste water treatment. Present technologies require use of significantly more chemicals.
- Chemicals are non-corrosive, non-hazardous to skin, non-toxic to consumption, biodegradable and environmentally friendly.
- Control of microorganisms and unique means of removing suspended solids are suitable for treatment and reuse of black water.
- Small size enables installation as part of a residential plumbing system allowing treatment of water at location of use.
- Potential to produce significant water conservation.
- Places less dependence on public water supplies and allows aquifers to recharge at their natural replenishment cycle.

Economics:

- Innovator has not disclosed except to state it is a low-cost solution.
- Ratio of chemical compounds per volume of treated water is minute.

Development Status

- Chemical compounds have been developed and tested.
- System hardware consists of standard plumbing and large particle filtering media.

IP Status

- Chemical compounds are held as a trade secret.

Partner Opportunities

- Exclusive licensing agreements for chemical compound formula.

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