

SYSTEM AND METHOD FOR SIMULTANEOUS EVAPORATION AND CONDENSATION IN CONNECTED VESSELS

Brief of the technology

The technology is related to a highly efficient water distillation or desalination system & process. The system can be implemented utilizing simple parts like evaporation vessel, the condensation vessel and connecting. The system is insulated to prevent heat loss to the environment. The invention has various other applications like reducing dissolved solids in any liquid, reducing suspended solids, separating miscible liquids with different volatilities in water or other liquid like hydrocarbon. The system can work in continuous as well as in batch mode for producing salt crystals.

USP

- Efficient water distillation or desalination system
- Compatible with any type of heating/cooling methods
- Easier control over the liquid pressure
- Reduces dissolved solid in any liquid
- Reduces suspended solids
- Separates miscible liquids

Development status

- Prototype to be developed

Competitive Advantage

- Easy installation
- Cost effective
- Prevents heat loss
- Easily crystallized salt crystals

Intellectual Property status

- The technology holds granted patent in USA, UK and India.

We are seeking commercialisation partners for licensing-out the technology

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Innovation-Technology Transfer Office, a regional tech transfer office established at FITT with support from NBM, BIRAC

