

A Novel Horizontal Method for Tray Distillation and Other Gas - Liquid Contact Operations

Brief of the technology

The technology presents a horizontal multi-stage tray distillation method with an efficient gas-liquid operation. The horizontal distillation system mainly comprises of feed stream, distillate stream, and residue stream, group of vessels, multiple non-return valves (NRVs), pumps and flow control valves (FCV). The system avoids inter-stage backflow of the liquid & vapours. The invention is compactly designed and offers high efficiency.

USP

- Highly efficient multi-stage tray distillation system
- Prevents inter-stage backflow of liquid
- Replicate vertical column for distillation
- Offers operational flexibility by allowing automated or manually control

Development status

- Prototype is to be developed

Competitive Advantage

- Compact design
- Cost-effective
- Portable
- Easy to install, operate & maintain
- Enables varieties of design modification

Intellectual Property status

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

We are seeking commercialisation partners for licensing out the technology

Contact us at: reema.fitt@gmail.com

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

