

InnoTech Alberta is a research and innovation organization, with a range of technologies available for licensing. Our focus is on the growth and development of technology-based sectors and the commercialization of technology in Alberta. We provide business and technical services, and initiatives that encourage a strong science, technology and entrepreneurial culture in Alberta.

LICENSING OPPORTUNITY

Hollow Fiber Membrane

LEVERAGE OUR TECHNOLOGY

InnoTech Alberta has a variety of technologies available for licensing. We will work with companies, from small to large, to set up mutually beneficial licensing deals. With more than 90 years in applied research and development, we are an experienced commercialization partner. InnoTech's licensing opportunities are the result of our world-renowned research programs. Contact us to explore these opportunities.

TECHNOLOGY OVERVIEW

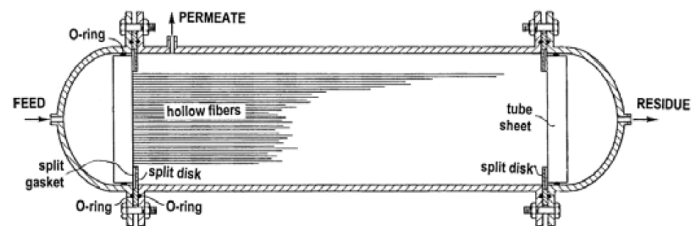
This technology is a novel hollow fibre membrane device, adapted for bore-side feed. It includes a split annular disk as a tube sheet support. The membrane is held in the module with the split diskettes versus other devices that use central core support or direct binding of a membrane to a vessel.

ADVANTAGES

Advanced design: Membrane is held in the module with the split diskettes as opposed to using central core support or direct binding of a membrane to a vessel

- » Easy replacement of the membrane and reuse of the vessel without any machining work
- » Advantageous for on-site service of membrane devices
- » Reduced maintenance costs
- » Effective: Using the device for nitrogen separation from combustion exhaust gas, a nitrogen stream of 98.5% purity was produced¹

¹ Ivory, J., Feng, X., Kovacic, G., J. Membrane Sci., 202, (2002), 195-204



Structure of Hollow Fiber Membrane Module

- » Stable: Long-term stability studies demonstrated that it could be maintained over a period of four months

COMMERCIAL APPLICATIONS

Fluid processing with hollow fiber membranes, including:

- » Gas and liquid purification
- » Adsorption or absorption
- » Reactors

STATUS

Issued patents in various jurisdictions, including US patent:

- » US Patent 6,224,763

This technology is available for licensing.

WANT TO EXPLORE THIS OPPORTUNITY?

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