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(71) Applicant (for all designated States except US): **UNIVERSITY OF OTTAWA** [CA/CA]; Technology Transfer & Business Enterprise, 800 King Edward Avenue, Room 3042, Ottawa, Ontario K1N 6N5 (CA).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **TREMBLAY, André Yves** [CA/CA]; 6104 Westwater Crescent, Ottawa, Ontario K1W 1C9 (CA). **DUBÉ, Marc Arnold** [CA/CA]; 340 Templeton Street, Ottawa, Ontario K1N 9P7 (CA).

(74) Agents: **MEE, Trevor R.** et al.; KIRBY EADES GALE BAKER, Box 3432, Station D, Ottawa, Ontario K1P 6N9 (CA).

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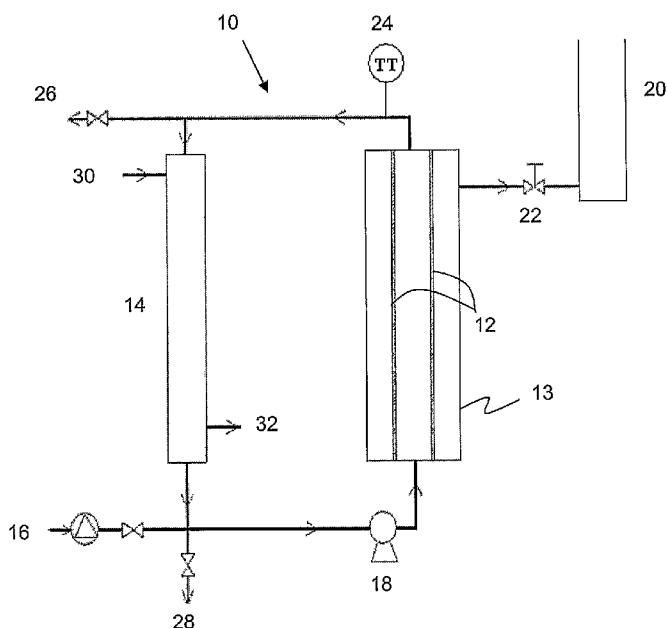
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(54) Title: APPARATUS AND METHOD FOR BIO-FUEL PRODUCTION



(57) Abstract: An apparatus for the production of a bio-fuel or a bio-fuel additive from plant-derived oils, animal fats or a mixture thereof, suitable for use in a diesel engine is disclosed. The apparatus comprises a porous membrane for separating a reaction mixture from a permeate, the reaction mixture comprising an alcohol, a feedstock comprising plant-derived oils, animal fats or mixture thereof, and a catalyst for converting said feedstock to a bio-fuel or a bio-fuel additive, wherein said porous membrane is substantially impermeable to the feedstock and substantially permeable to said bio-fuel or bio-fuel additive. A method using said porous membrane in the production of a bio-fuel or a bio-fuel additive is also disclosed

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