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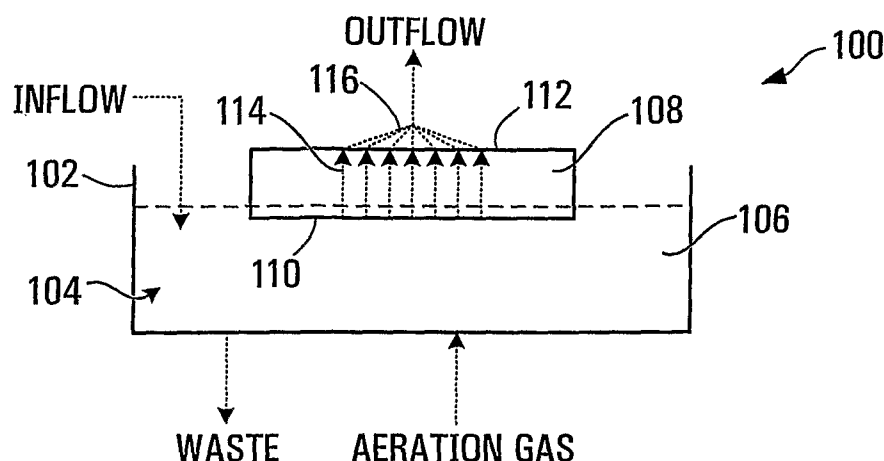
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
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(54) Title: CONTAMINATED INFLOW TREATMENT WITH MEMBRANE DISTILLATION BIOREACTOR



(57) Abstract: A membrane distillation bioreactor (100) is provided for treating contaminated inflow such as wastewater. A contaminated inflow may be treated by biodegrading a contaminant in the inflow with a biological agent in the bioreactor to produce a lower contaminant inflow, which may be distilled, by membrane distillation, through a distillation membrane (108) in fluid communication with the bioreactor, to produce an outflow. The inflow may be wastewater. The outflow may be purified water. In one embodiment, the membrane may be located in the reaction chamber of the bioreactor vessel (102) and may be submerged in the mixed liquor. In a different embodiment suitable for wastewater treatment, the membrane may be located external to the bioreactor. The bioreactor may be aerobic or anaerobic.