

Title (en)

METHOD AND APPARATUS PROVIDING IMPROVED THROUGHPUT AND OPERATING LIFE OF SUBMERGED MEMBRANES

Title (de)

VERFAHREN UND VORRICHTUNG ZUR BEREITSTELLUNG EINES VERBESSERTEN DURCHSATZES UND EINER VERBESSERTEN BETRIEBSLEBENSDAUER VON TAUCHMEMBRANEN

Title (fr)

PROCEDE ET APPAREIL PERMETTANT D'OBTENIR DES MEMBRANES SUBMERGEES A RENDEMENT ET VIE UTILE AMELIORES

Publication

EP 1789162 A4 20070815 (EN)

Application

EP 05740138 A 20050331

Priority

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Abstract (en)

[origin: WO2005100264A2] A submerged membrane assembly including a membrane having a first surface, a second surface, and a vertical axis, and which is permeable between the surfaces by molecules of less than a predetermined size. A first fluid compartment in fluid communication with the first membrane surface and that contains at a first column height a first fluid having a first specific gravity, a second fluid compartment in fluid communication with the second membrane surface and that contains at a second column height a second fluid having a second specific gravity, and means for changing the second specific gravity. The second column height being selected relative to the first column height to produce a selected pressure differential across the membrane along the vertical axis at the first specific gravity and the changed second specific gravity.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [A] WO 02072485 A2 20020919 - V A I LTD [CA], et al
- [A] FR 2580622 A1 19861024 - DEGREMONT [FR]
- [A] US 4961854 A 19901009 - WITTMANN JOHN W [US], et al
- [A] WO 0067886 A1 20001116 - CANZONE LTD [CA], et al
- [A] UEDA, T. ET AL: "Domestic wastewater treatment by a submerged membrane bioreactor with gravitational filtration", WATER RESEARCH, ELSEVIER, vol. 33, no. 2406, August 1999 (1999-08-01), AMSTERDAM,NL, pages 2888-2892, XP004174057
- See references of WO 2005100264A2

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