

Title (en)
IMMERSED MEMBRANE CASSETTE AND METHOD OF OPERATION

Title (de)
EINGETAUCHTE MEMBRANKASSETTE UND BEDIENUNGSVERFAHREN

Title (fr)
CASSETTE DE MEMBRANES IMMERGÉES ET PROCÉDÉ DE FONCTIONNEMENT

Publication
EP 2389238 A4 20130703 (EN)

Application
EP 10731002 A 20100114

Priority
• CA 2010000052 W 20100114
• US 14472309 P 20090114

Abstract (en)
[origin: WO2010081228A1] A module of vertical membranes has a lower header with integral air holes. Modules are mounted in line on upper and lower beams. A skirt is formed under the cassette. Adjustable side members between the beams allow for membrane slack adjustment and bottom beam levelling. A flat aerator assembly can be inserted into spaces between the cassettes and provide bubbles into the skirts, the spaces between cassettes, or both. An aeration method involves producing bubbles primarily or only to one side of the module, alternating from one side of the module to the other, while also producing bubbles within the module or between the membranes, optionally continuously. A cleaning method involves flowing a chemical cleaning solution by force of gravity through a membrane module, optionally by injected a concentrated solution into a vented portion of a permeate withdrawal system located above the water level in a tank holding the module.

IPC 8 full level
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Citation (search report)
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