

Title (en)

WATER FILTRATION USING IMMERSED MEMBRANES

Title (de)

WASSERFILTRATION UNTER VERWENDUNG VON TAUCHMEMBRANEN

Title (fr)

FILTRATION D'EAU A L'AIDE DE MEMBRANES IMMERGEES

Publication

**EP 1718398 A4 20070425 (EN)**

Application

**EP 05714524 A 20050225**

Priority

- CA 2005000282 W 20050225
- US 54778704 P 20040227
- US 57580404 P 20040602
- CA 2482517 A 20040924
- US 96107704 A 20041012
- US 63343204 P 20041207

Abstract (en)

[origin: CA2560152A1] A process and apparatus is described for filtering water with immersed membranes. In a batch process, permeate is withdrawn while the flow of feed is reduced or stopped at the end of a permeation cycle. The water level is reduced to a level where a portion of the membranes are exposed to air before draining the tank. In this or another process, the level of liquid is reduced to correspond with an area of the membrane fibers having an accumulation of solids. Aeration is provided for a period of time with the liquid at this level to dislodge at least a portion of the solids from the membranes. In these or other processes, the tank is partially drained between cycles to deconcentrate the tank, aeration is provided during backwashing and intermittently while permeating, and/or retentate is withdrawn from the tank during a portion of a permeation step.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

- [Y] JP H0747245 A 19950221 - KURITA WATER IND LTD
- [Y] JP H02164423 A 19900625 - TOSHIBA CORP
- [A] JP H0217925 A 19900122 - TOSHIBA CORP
- See also references of WO 2005082498A1

Cited by

US9956530B2; US10702831B2

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