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(71) Applicant (for all designated States except US): **OASYS WATER, INC.** [US/US]; 222 Third Street, Suite 1320, Cambridge, MA 02142 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MCGINNIS, Robert** [US/US]; 195 Binney Street, Apt. 1402, Cambridge, MA 02142 (US). **MCGURGAN, Gary** [US/US]; 11 Garrison Rd., Belmont, MA 02478 (US).

(74) Agent: **PALMER, Nicole, A.**; Lando & Anastasi, LLP., One Main Street, Eleventh Floor, Cambridge, MA 02142 (US).

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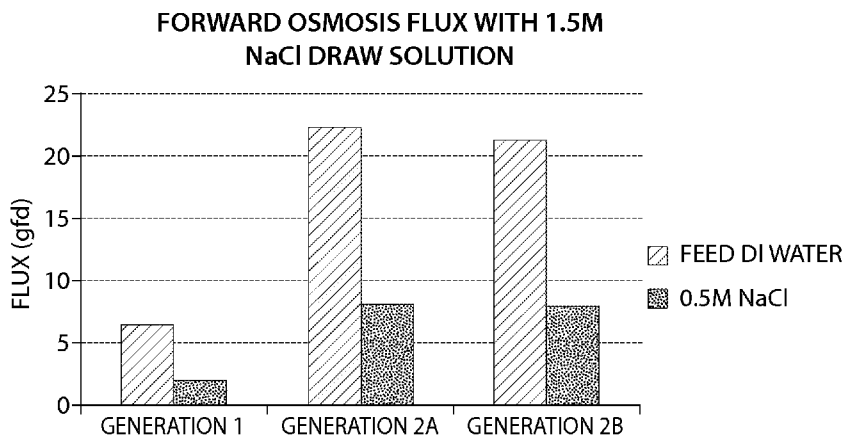


Fig. 4

(57) Abstract: Forward osmosis membranes include an active layer and a thin support layer. A bilayer substrate including a removable backing layer may allow forward osmosis membranes with reduced supporting layer thickness to be processed on existing manufacturing lines.

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A. CLASSIFICATION OF SUBJECT MATTER***B01D 69/10(2006.01)i, B01D 67/00(2006.01)i, B01D 71/00(2006.01)i, B01D 61/00(2006.01)i, C02F 1/44(2006.01)i***

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B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: osmosis, membrane, support, barrier, separate

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2007-0251883 A1 (Q. JASON NIU) 01 November 2007	18-23
A	See paragraphs [0005]-[0008] and figures 1,2	1-17
A	US 2005-0006301 A1 (ANGELINI PETER J. et al.) 13 January 2005 See paragraphs [0024],[0052] and [0063]	1-17
A	US 2006-0226067 A1 (HERRON) 12 October 2006 See paragraphs [0011]-[0015]	1-23
A	US 2006-0043013 A1 (HIRO et al.) 02 March 2006 See paragraph [0056] and claim 1	1-17
A	US 2005-0077243 A1 (INGO PINNAU et al.) 14 April 2005 See paragraphs [0061]-[0064]	1-17

 Further documents are listed in the continuation of Box C. See patent family annex.

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Authorized officer

JANG, Sung Won

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