



(51) International Patent Classification:
B01D 24/00 (2006.01)

(21) International Application Number:
PCT/US2009/057999

(22) International Filing Date:
23 September 2009 (23.09.2009)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/099,597 24 September 2008 (24.09.2008) US
61/099,600 24 September 2008 (24.09.2008) US
61/099,604 24 September 2008 (24.09.2008) US
61/175,579 5 May 2009 (05.05.2009) US

(71) Applicant (for all designated States except US):
SIEMENS WATER TECHNOLOGIES CORP.
[US/US]; 181 Thorn Hill Rd., Warrendale, Pennsylvania
15086 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **FELCH, Chad L.**
[US/US]; 1862 Mike Lane, Mosinee, Wisconsin 54455
(US). **HOWDESHELL, Michael** [US/US]; R12235
Happy Trails Lane, Ringle, Wisconsin 54471 (US).
MUNSON, Stuart J. [US/US]; 2019 Garth Street,
Wausau, Wisconsin 54403 (US). **LORGE, Eric A.** [US/
US]; 2102 Highland Drive, Mosinee, Wisconsin 54455
(US). **KUMFER, Bryan J.** [US/US]; T 756 Arrow Drive,
Wausau, Wisconsin 54403 (US). **PATTERSON,**

Matthew [US/US]; R20101 Hoot Owl Drive, Ringle,
Wisconsin 54471 (US).

(74) Agents: **MUSACCHIO, Pasquale** et al.; Siemens Corpo-
ration- Intellectual Property Dept., 170 Wood Avenue
South, Iselin, New Jersey 08830 (US).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP,
KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD,
ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI,
NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD,
SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT,
TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ,
TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV,
MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

(54) Title: WATER TREATMENT METHODS

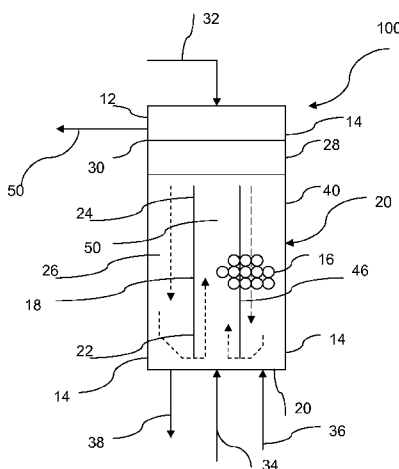


FIG. 1

(57) Abstract: The present invention relates generally to a system and method for treating wastewater in a filter media apparatus having a draft tube system. The filter media may be walnut shell media.