



- (51) International Patent Classification:
D06F 43/02 (2006.01) *D06F 43/00* (2006.01)
- (21) International Application Number:
PCT/US2013/021719
- (22) International Filing Date:
16 January 2013 (16.01.2013)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
61/587,278 17 January 2012 (17.01.2012) US
13/741,925 15 January 2013 (15.01.2013) US
- (71) Applicant: CO2NEXUS, INC; 6531 N Washington St., Suite B, Denver, CO 80229 (US).
- (72) Inventors; and
- (71) Applicants : BABBIT, Guy, Robert [US/US]; 120 N Roosevelt Ave, Fort Collins, CO 80521 (US). MAXEY, Andrew, Timothy [US/US]; 11662 W 84th St, Arvada,

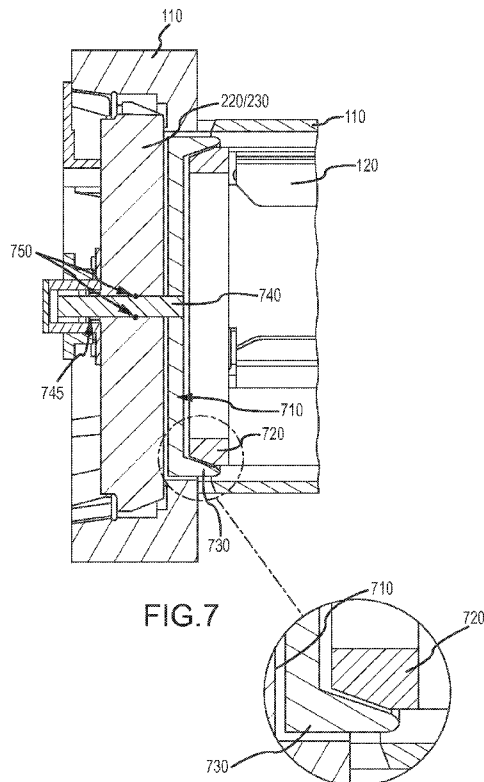
CO 8005 (US). SIEWERS, Ernst, Jan [NL/NL]; Nassaulan 1, NL-1815 GG Alkmaar (NL). PARKER, Stuart [GB/NL]; Torenstraat 10, NL-1382 XP Weesp (NL). ECHTER, Nicholas, Paul; 3002 W Elizabeth St., Unit 17D, Fort Collins, CO 80521 (US).

(74) Agent: MARTENSEN, Michael C.; Martensen IP, 30 East Kiowa, Suite 101, Colorado Springs, CO 80903 (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, BN, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

[Continued on next page]

(54) Title: BARRIER DENSIFIED FLUID CLEANING SYSTEM



(57) Abstract: A densified fluid barrier cleaning system (100) is disclosed in which a pressure vessel (110) encases a movable basket (120) positioned so as to cross a barrier (210) such that one opening (220) of the pressure vessel resides in a first environment (225) and a second opening (230) of the pressure vessel resides in a second environment (235). A tubular basket (120) within the pressure vessel is positioned such that its central longitudinal axis is aligned with both the first (220) and second (230) opening of the pressure vessel (110). Responsive to the successful completion of a cleaning cycle, soiled articles that are introduced to the basket (120) via the first opening from the first environment can be removed through the second opening and into the second environment thus bridging the barrier without fear of introducing contaminants from the first environment to second environment.



(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, 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, RS, 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))*
- *with amended claims (Art. 19(1))*

(88) Date of publication of the international search report:

17 October 2013

Date of publication of the amended claims: 21 November 2013

Declarations under Rule 4.17:

- *of inventorship (Rule 4.17(iv))*