(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
17 August 2017 (17.08.2017)

WIPO | PCT

(10) International Publication Number
WO 2017/139388 A1

(51) International Patent Classification:
*A47K 1/04* (2006.01) *B67D 1/12* (2006.01)
*A47K 1/12* (2006.01) *B67D 1/16* (2006.01)
*A47K 4/00* (2006.01)

(21) International Application Number:
PCT/US2017/017034

(22) International Filing Date:
8 February 2017 (08.02.2017)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
62/292,375 8 February 2016 (08.02.2016) US

(72) Inventor; and
(71) Applicant : **DAULEH, Mazen I.** [US/US]; 11111 Richmond Avenue, Suite 242, Houston, TX 77082 (US).

(74) Agents: **OBERDICK, David G.** et al.; Meyer, Unkovic & Scott LLP, 535 Smithfield Street, Suite 1300, Pittsburgh, PA 15222 (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, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, 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, SA, 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.

(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, ST, 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, KM, ML, MR, NE, SN, TD, TG).

**Published**:

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

— *with amended claims (Art. 19(1))*

(54) Title: DRAIN DIVERTED DIRTY WATER AND CONTINUOUSLY CIRCULATED CLEAN WATER SYSTEM

(57) Abstract: According to embodiments of the present disclosure is a water delivery system that continuously flows and recirculates clean water, diverting only water that has touched a user's hands. No sensing is required to activate the water flow and the actions of the user effectively divert the dirty water to a drain. The water delivery system comprises a clean water outlet, a clean water inlet, a dirty water drain, and a circulation pump. A stream of water continuously flows from the outlet and is received by the water inlet if the stream is uninterrupted. If the stream is disturbed, such as by the hand washing activities of the user, the stream is diverted from the inlet and instead falls into a sink and into the drain.

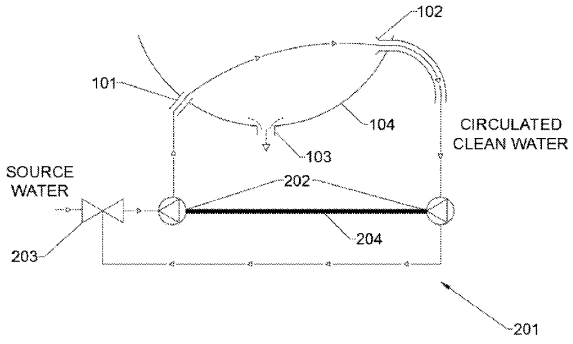



FIG. 1

WO 2017/139388 A1