

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
21 September 2023 (21.09.2023)



(10) International Publication Number
WO 2023/175601 A1

(51) International Patent Classification:

B01F 23/236 (2022.01) **B01F 35/71** (2022.01)
A23L 2/54 (2006.01) **B01D 35/00** (2006.01)
B01F 23/231 (2022.01) **B67D 1/04** (2006.01)
B01F 23/237 (2022.01) **C02F 9/20** (2023.01)
B01F 23/2361 (2022.01)

(21) International Application Number:

PCT/IL2023/050251

(22) International Filing Date:

10 March 2023 (10.03.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

17/693,410 13 March 2022 (13.03.2022) US

(71) Applicant: **SODASTREAM INDUSTRIES LTD.**
[IL/IL]; 1 Atir Yeda Street, 4464301 Kfar Saba (IL).

(72) Inventors: **WAISMAN, Alon**; 44/1 Tirosh Street, 6081689 Shoham (IL). **GUR, Vladislav**; 1 Heshvan Street, 7177834 Modi'in (IL). **COHEN, Avi**; 10 Prof. Yuval Neeman Street, 6967184 Tel-Aviv (IL). **RING, Allan**; 15 Harimon Street, 7941110 Mercas Shapira (IL).

(74) Agent: **SIERADZKI, Doron**; PEARL COHEN ZEDEK LATZER BARATZ, P.O. Box 20678, 6120602 Tel-Aviv (IL).

(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, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, 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, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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, ME, 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).

(54) Title: CARBONATION MACHINE WITH INTEGRATED WATER TREATMENT AND DETACHABLE WATER RESERVOIR

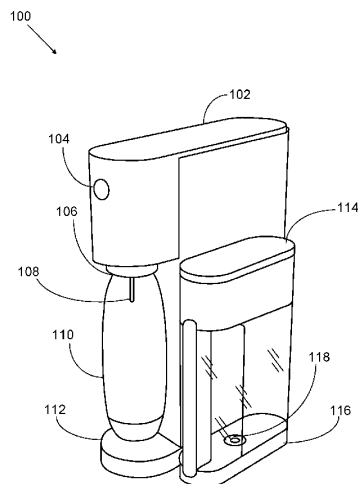


Fig. 1

(57) Abstract: A carbonation machine with integrated water treatment. The carbonation machine may include a carbonation system for carbonating water in a bottle attached to a carbonation head of the system, a detachable water reservoir, configured to be mounted on a base with an outlet port to allow outward flow of water from the reservoir, piping connecting the outlet port of the water reservoir to transfer water from the detachable reservoir and to pour the water into the bottle, a pump for pumping water out of the water reservoir and transfer the pumped water via the piping, a controller configured to control the pump, and one or more water treatment components fluidically connected to the piping to apply water treatment to water flowing through the piping.

WO 2023/175601 A1

[Continued on next page]

Published:

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