



(51) International Patent Classification:

C02F 1/66 (2023.01) F04B 49/22 (2006.01)
B01F 25/312 (2022.01) G05D 7/01 (2006.01)
C02F 1/68 (2023.01) B01F 25/40 (2022.01)
F04B 15/02 (2006.01)

(21) International Application Number:

PCT/US2023/019429

(22) International Filing Date:

21 April 2023 (21.04.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/363,414 22 April 2022 (22.04.2022) US

(71) Applicant: SAMCO TECHNOLOGIES, INC. [US/US];
1 River Rock Drive, PO Box 1047, Buffalo, New York
14207 (US).

(72) Inventors: BURGER, Matthew J; 232 Wayside Dr., De-
pew, New York 14043 (US). AKINS, Emily. PEACOCK,
Richard.

(74) Agent: CANTRELL, Robert L.; Simpson & Simpson,
PLLC, 5555 Main Street, Williamsville, New York 14221
(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, 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, MU, MW, MX, MY, MZ, NA,

(54) Title: SYSTEM FOR TREATING WASTEWATER FROM ELECTRONICS AND SEMICONDUCTOR FABRICATION FACILITIES

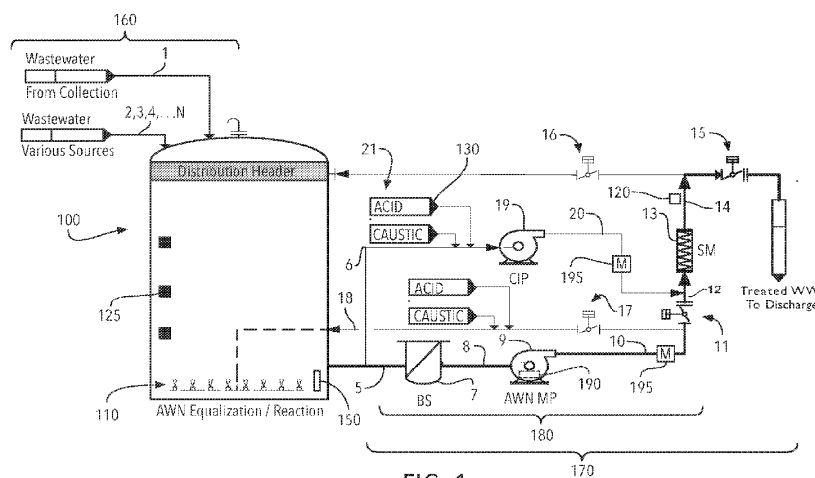


FIG. 1

(57) Abstract: A system for treating wastewater from electronics and semiconductor companies that has at least one reactor tank assembly and at least one wastewater conveyance of inflow, outflow, and return flow pipe, valve, and pump assemblies. The at least one reactor tank assembly is interchangeably operable at least one or more of singly, as a series of reactor tank assemblies, and parallel with other reactor tank assemblies. At least one eductor mixer assembly is operationally disposed on a bottom portion of the reactor tank assembly and is designed to mix the wastewater in the reactor tank assembly. At least one pH computer-monitored sensor assembly is disposed at least partially within the wastewater flow. At least one or more of acid and caustic from respective storage tanks is used to change the pH of the wastewater until treated and suitable for discharge.

[Continued on next page]

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).

Published:

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*