



(51) **International Patent Classification:**
H01J 37/32 (2006.01) *H03H 7/38* (2006.01)

(21) **International Application Number:**
PCT/US2022/052676

(22) **International Filing Date:**
13 December 2022 (13.12.2022)

(25) **Filing Language:** English

(26) **Publication Language:** English

(30) **Priority Data:**
63/295,255 30 December 2021 (30.12.2021) US

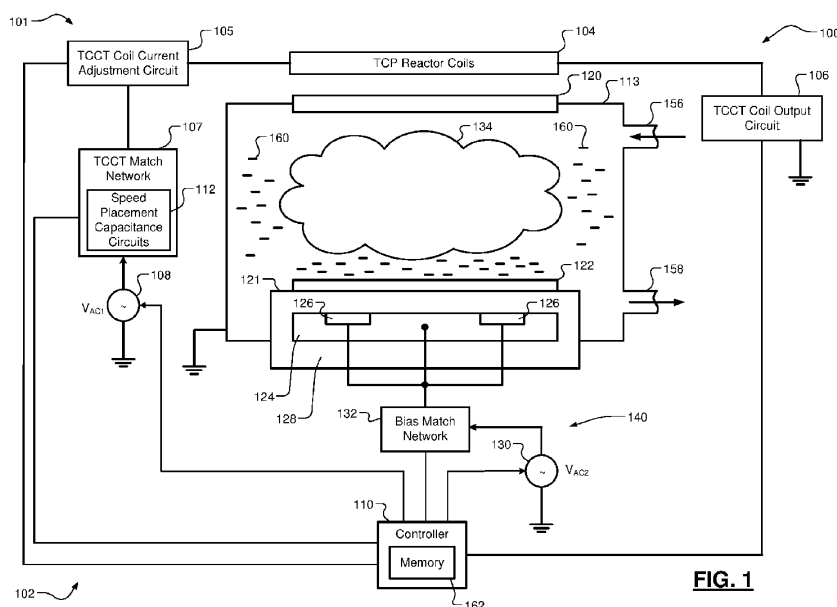
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(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, 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,

(54) Title: SUBSTRATE PROCESSING TOOL WITH HIGH-SPEED MATCH NETWORK IMPEDANCE SWITCHING FOR RAPID ALTERNATING PROCESSES



(S7) Abstract: A transformer coupled capacitive tuning (TCCT) match network includes coarse and fine adjustment circuits. The coarse adjustment circuit receives a first RF signal and includes a first tune variable capacitance circuit and a first load variable capacitance circuit. The first tune variable capacitance circuit adjusts a frequency of the first RF signal to generate a second RF signal. The first load variable capacitance circuit is connected to a ground reference terminal and configured to adjust an impedance of the TCCT match network. The fine adjustment circuit includes a second tune variable capacitance circuit and a second load variable capacitance circuit. The second tune variable capacitance circuit fine tunes a frequency of the second RF signal. The second load variable capacitance circuit is connected to the ground reference terminal and fine tunes the impedance of the transformer coupled capacitive tuning match network.

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, 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).

Declarations under Rule 4.17:

— *of inventorship (Rule 4.17(iv))*

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))*