

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
06 March 2025 (06.03.2025)



(10) International Publication Number
WO 2025/049072 A2

(51) International Patent Classification:

H03F 1/14 (2006.01) H03F 3/21 (2006.01)
H03F 1/22 (2006.01) H03F 3/213 (2006.01)
H03F 1/56 (2006.01) H03F 3/24 (2006.01)
H03F 3/195 (2006.01)

(21) International Application Number:

PCT/US2024/041575

(22) International Filing Date:

08 August 2024 (08.08.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

18/459,262 31 August 2023 (31.08.2023) US

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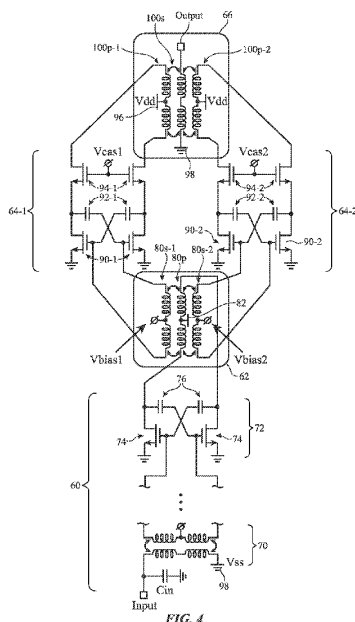
(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM,
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IQ, 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, MU, 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).

Published:

— without international search report and to be republished
upon receipt of that report (Rule 48.2(g))

(54) Title: MULTIPATH AMPLIFIER WITH COMPACT POWER SPLITTING AND COMBINING TRANSFORMERS



(57) Abstract: Wireless circuitry is provided that includes at least a first amplifier, a second amplifier, and a power splitting transformer coupled to the first and second amplifiers. The first amplifier can include first input transistors, and the second amplifier can include second input transistors. The power splitting transformer can include a primary coil, a first secondary coil having terminals coupled to gate terminals of the first input transistors and having a center tap configured to receive a first bias voltage, and a second secondary coil having terminals coupled to gate terminals of the second input transistors and having a center tap configured to receive a second bias voltage. The first and second amplifiers may output signals to a power combining transformer. The power combining transformer can have a first primary coil, a second primary coil, and a secondary coil all disposed within a single compact transformer footprint.

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