

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
08 May 2025 (08.05.2025)



(10) International Publication Number
WO 2025/096002 A1

(51) International Patent Classification:

H04L 5/00 (2006.01) H04B 7/0456 (2017.01)
H04W 52/32 (2009.01) H04B 7/024 (2017.01)
H04L 1/00 (2006.01)

(21) International Application Number:

PCT/US2024/021632

(22) International Filing Date:

27 March 2024 (27.03.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/595,211 01 November 2023 (01.11.2023) US

(71) Applicant: **NOKIA TECHNOLOGIES OY** [FI/FI];
Karakaari 7, 02610 Espoo (FI).

(71) Applicant (for LC only): **NOKIA OF AMERICA COR-
PORATION** [US/US]; 600-700 Mountain Avenue, Murray
Hill, New Jersey 07974-0636 (US).

(72) Inventors: **TOSATO, Filippo**; 12 rue Jean Bart, 91300
Massy (FR). **ENESCU, Mihai**; Karakaari 13, 02610 Espoo
(FI).

(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:

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

(54) Title: METHOD AND APPARATUS FOR POWER CONTROL OFFSET SCALING FOR COHERENT JOINT TRANSMISSION

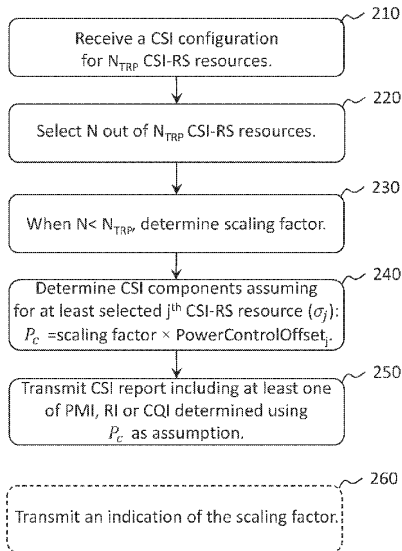


Fig. 2

(57) Abstract: In accordance with an example embodiment of the present invention, provided are methods, apparatuses and computer program products configured at least to: select an integer number N_0 of channel state information reference signal (CSI-RS) resources out of an integer number of N_{TRP} network configured CSI-RS resources to a resource set associated with a CSI report configuration, wherein $N < N_{TRP}$; determine a scaling factor for the resource set; determine at least one CSI component, based at least in part on an assumption that a ratio of a transmitted energy per resource element (EPRE) of a PDSCH signal and a transmitted EPRE of the n^{th} CSI-RS resource is equal to the scaling factor times a power control offset configured for the n^{th} CSI-RS resource of the resource set, wherein $n \in [1, N]$; and transmit a CSI report to a network comprising the determined at least one CSI component.

WO 2025/096002 A1