



(51) International Patent Classification:

H01Q 1/00 (2006.01) *H01Q 21/20* (2006.01)
H01Q 1/52 (2006.01) *H01Q 21/28* (2006.01)
H01Q 13/20 (2006.01) *H01Q 13/22* (2006.01)

(21) International Application Number:

PCT/EP2010/068445

(22) International Filing Date:

29 November 2010 (29.11.2010)

(25) Filing Language:

English

(26) Publication Language:

English

(71) Applicant (for all designated States except US): **TELEFONAKTIEBOLAGET LM ERICSSON (publ)** [SE/SE]; S-164 83 Stockholm (SE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ASPLUND, Henrik** [SE/SE]; Borgargatan 16, S-117 34 Stockholm (SE). **DERNERYD, Anders** [SE/SE]; Kvarnpirsgatan 4, S-417 64 Göteborg (SE). **MEDBO, Jonas** [SE/SE]; Petterslundsgatan 33, S-753 28 Uppsala (SE).

(74) Agent: **SÄFSTEN, Karin**; Brann AB, P.O. Box 122 46, S-102 26 Stockholm (SE).

(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, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, 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))

(54) Title: AN ANTENNA ARRANGEMENT

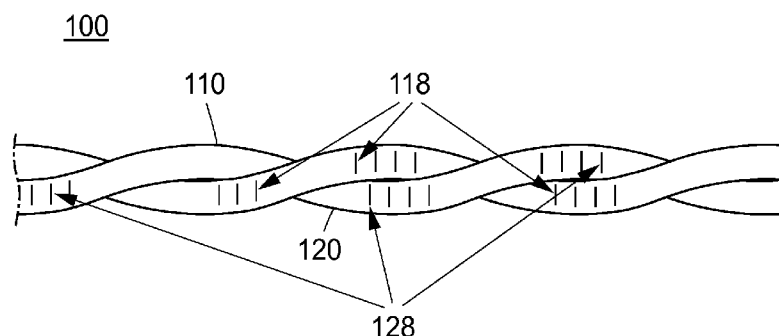


Fig.2a

(57) Abstract: An antenna arrangement comprising at least a first and a second elongated structure, e.g., a coaxial cable, for guiding an electromagnetic wave is provided. Each of said structures comprises a plurality of radiation elements. The structures are positioned alongside each other in their longitudinal direction of extension forming a bundle. The elongated structures are arranged within the bundle such that the radial positions of said structures are alternated in the longitudinal direction of extension.