

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
10 August 2006 (10.08.2006)

PCT

(10) International Publication Number
WO 2006/082372 A1

(51) International Patent Classification:
G01V 3/30 (2006.01)

(74) Agents: **REES, David Christopher** et al.; Kilburn & Strode, 20 Red Lion Street, London WC1R 4PJ (GB).

(21) International Application Number:
PCT/GB2006/000282

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 27 January 2006 (27.01.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0502064.9 1 February 2005 (01.02.2005) GB

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*): **ELECTROMAGNETIC GEOSERVICES AS** [NO/NO]; Stiklestadveien 1, N-7041 Trondheim (NO).

(71) Applicant (*for BB only*): **REES, David, Christopher** [GB/GB]; Kilburn & Strode, 20 Red Lion Street, London WC1R 4PJ (GB).

(72) Inventor; and

(75) Inventor/Applicant (*for US only*): **SCHAUG-PETERSEN, Tor** [NO/NO]; Nordre Risvolltun 7 H, N-7036 Trondheim (NO).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: OPTIMUM MULTIFREQUENCY ELECTROMAGNETIC SIGNAL FOR SEA BED LOGGING

(57) Abstract: Multifrequency electromagnetic signals which may be used in the field of sea bed logging, the signal being optimised for use at a particular site, in order to greatly improve data inversion, and a method for producing the optimum multifrequency signal.



WO 2006/082372 A1

Abstract

5 Multifrequency electromagnetic signals which may be used in the field of sea bed logging, the signal being optimised for use at a particular site, in order to greatly improve data inversion, and a method for producing the optimum multifrequency signal.