

(12) International Application Status Report

Received at International Bureau: 14 July 2010 (14.07.2010)

Information valid as of: 18 August 2011 (18.08.2011)

Report generated on: 24 January 2021 (24.01.2021)

(10) Publication number:

WO2011/010932

(43) Publication date:

27 January 2011 (27.01.2011)

(26) Publication language:

English (EN)

(21) Application Number:

PCT/NO2010/000267

(22) Filing Date:

06 July 2010 (06.07.2010)

(25) Filing language:

Norwegian (NO)

(31) Priority number(s):

20092575 (NO)

(31) Priority date(s):

07 July 2009 (07.07.2009)

(31) Priority status:

Priority document received (in compliance with PCT Rule 17.1)

(51) International Patent Classification:

G01V 1/38 (2006.01); **B63B 21/66** (2006.01); **B63G 8/42** (2006.01)

(71) Applicant(s):

KONGSBERG SEATEX AS [NO/NO]; Pirsenteret N-7462 Trondheim (NO) *(for all designated states except US)*

FJELLSTAD, Ola, Erik [NO/NO]; Nordslettv. 41 N-7038 Trondheim (NO) *(for US only)*

RINNAN, Arne [NO/NO]; Pirsenteret N-7462 Trondheim (NO) *(for US only)*

BERGE, Olav, Magnus [NO/NO]; Reirveien 31 N-3185 Skoppum (NO) *(for US only)*

FAUGSTADMO, Jan, Erik [NO/NO]; Karlsvikveien 16 N-3150 Tolvsrød (NO) *(for US only)*

SKJERVHEIM, Sveinung [NO/NO]; Heimdalsgate 4 N-3182 Horten (NO) *(for US only)*

BACHE, Snorre [NO/NO]; Sommerhaugen Övre N-7074 Spongdal (NO) *(for US only)*

(72) Inventor(s):

FJELLSTAD, Ola, Erik; Nordslettv. 41 N-7038 Trondheim (NO)

RINNAN, Arne; Pirsenteret N-7462 Trondheim (NO)

BERGE, Olav, Magnus; Reirveien 31 N-3185 Skoppum (NO)

FAUGSTADMO, Jan, Erik; Karlsvikveien 16 N-3150 Tolvsrød (NO)

SKJERVHEIM, Sveinung; Heimdalsgate 4 N-3182 Horten (NO)

BACHE, Snorre; Sommerhaugen Övre N-7074 Spongdal (NO)

(74) Agent(s):

CURO AS; Industriveien 53 N-7080 Heimdal (NO)

(54) Title (EN): CONTROL DEVICE FOR POSITIONING AN INSTRUMENTED CABLE TOWED IN WATER

(54) Title (FR): DISPOSITIF DE COMMANDE DE LA POSITION D'UN CÂBLE INSTRUMENTÉ REMORQUÉ DANS L'EAU

(57) Abstract:

(EN): Control device (10, 50) for controlling the position of an instrumented cable towed in water, such as a marine seismic streamer, and/or an instrumented towed cable array (streamer array) with the possibility of controlling the individual instrumented cables both with in shape and position in relation to other instrumented cables and by that counteract cross currents and/or other dynamic forces which affect a towed array behind a seismic survey vessel, which control device (10, 50) is provided with one or more acoustic means, such as acoustic transmitter/receiver elements (40), arranged to or integrated in the wings (11, 52), main body (12, 53) or motor and drive gear housings (51) of the control device for determination of position and distance.

(FR): L'invention porte sur un dispositif de commande (10, 50) de la position d'un câble instrumenté remorqué dans l'eau, tel qu'une traîne sismique marine et/ou un réseau de câbles instrumentés, offrant la possibilité de commander individuellement des câbles instrumentés pour ce qui est de leur forme et de leur position par rapport aux autres câbles instrumentés, et de contrecarrer les courants transversaux et/ou les forces dynamiques affectant les réseau de câbles remorqués par des navires de relevés sismiques. Le dispositif de commande (10, 50) est pourvu d'un ou plusieurs moyens acoustiques tels que des émetteurs/récepteurs

(40), placés sur ou intégrés, aux ailerons (11, 52), au corps principal (12, 53) ou aux carter (51) du moteur et de la boîte du dispositif de commande, pour déterminer la position et la distance.

International search report:

Received at International Bureau: 21 November 2010 (21.11.2010) [SE]

International Report on Patentability (IPRP) Chapter II of the PCT:

Chapter II demand received: 04 May 2011 (04.05.2011)

(81) Designated States:

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

European Patent Office (EPO) : 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, SE, SI, SK, SM, TR

African Intellectual Property Organization (OAPI) : BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

African Regional Intellectual Property Organization (ARIPO) : BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW

Eurasian Patent Organization (EAPO) : AM, AZ, BY, KG, KZ, MD, RU, TJ, TM