

Title (en)

FORWARD SCANNING SONAR SYSTEM AND METHOD WITH ANGLED FAN BEAMS

Title (de)

VORWÄRTS ABTASTENDES SONARSYSTEM UND VERFAHREN MIT ABGEWINKELTEN LÜFTERSTRAHLEN

Title (fr)

SYSTÈME ET PROCÉDÉ DE SONAR À BALAYAGE VERS L'AVANT À FAISCEAUX EN ÉVENTAIL INCLINÉS

Publication

**EP 3325997 A4 20190403 (EN)**

Application

**EP 16829518 A 20160728**

Priority

- CA 2899119 A 20150729
- US 201615070535 A 20160315
- CA 2928461 A 20160429
- US 201615154231 A 20160513
- CA 2016000199 W 20160728

Abstract (en)

[origin: AU2016300222A1] A new type of forward scanning sonar system is provided. The forward scan sonar system comprises at least a sonar transducer and a support structure having the at least a sonar transducer mounted thereto, the at least a sonar transducer being configured such that, while during scanning operation the sonar transducer is moved along a forward moving direction, a fan-shaped beam of the sonar transducer is forming a plane oriented forwardly downwardly such that the fan-shaped beam forms a scan line oriented at a scan angle to the forward moving direction with the scan angle being greater than 0 and smaller than  $\pi/2$  and such that the scan line intersects the forward direction at a point ahead of the sonar transducer.

IPC 8 full level

**G01S 7/523** (2006.01); **G01S 7/521** (2006.01); **G01S 7/62** (2006.01); **G01S 15/89** (2006.01)

CPC (source: EP US)

**G01S 7/52003** (2013.01 - EP); **G01S 7/521** (2013.01 - EP); **G01S 7/629** (2013.01 - EP); **G01S 15/87** (2013.01 - EP US); **G01S 15/89** (2013.01 - EP); **G01S 15/8902** (2013.01 - EP US); **G10K 11/346** (2013.01 - EP)

Citation (search report)

- [X] US 4970700 A 19901113 - GILMOUR GEORGE A [US], et al
- [X] US 2007291589 A1 20071220 - KAWABATA YASUO [JP], et al
- [X] US 4493064 A 19850108 - ODERO DOMINIQUE [FR], et al
- [X] US 8964507 B2 20150224 - BACHELOR SCOTT T [US], et al
- See references of WO 2017015741A1

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