

Title (en)  
3-D SONAR SYSTEM

Title (de)  
3D-SONARSYSTEM

Title (fr)  
SYSTÈME DE SONAR 3-D

Publication  
**EP 2019972 A4 20101201 (EN)**

Application  
**EP 07776216 A 20070424**

Priority  

- US 2007010074 W 20070424
- US 79417606 P 20060424
- US 58162606 A 20061016

Abstract (en)  
[origin: WO2007127271A2] A 3-dimensional sonar system having a fixed frame of reference including a transmitter and receiver array. The system may include a single ping processor for processing received echoes from a single transmission including methods to match filter sonar sensor data, to optionally compensate for self Doppler, beamform sonar sensor data, to extract bottom targets from beamformed data and to extract in-water targets from the beamformed data. The system may also include a multi ping processor to operate on the outputs of multiple pings from the single ping processor including methods to detect tracks from in-water targets.

IPC 8 full level  
**G01S 15/89** (2006.01); **G01S 7/52** (2006.01); **G01S 7/526** (2006.01); **G01S 7/56** (2006.01); **G01S 15/66** (2006.01); **G01S 15/86** (2020.01); **G01S 15/87** (2006.01)

CPC (source: EP)  
**G01S 7/52003** (2013.01); **G01S 7/52004** (2013.01); **G01S 7/527** (2013.01); **G01S 15/10** (2013.01); **G01S 15/42** (2013.01); **G01S 15/50** (2013.01); **G01S 15/66** (2013.01); **G01S 15/86** (2020.01); **G01S 15/8902** (2013.01); **G01S 7/539** (2013.01); **G01S 13/862** (2013.01)

Citation (search report)  

- [XII] WO 2005047930 A1 20050526 - ZIMMERMAN MATTHEW J [US], et al
- See references of WO 2007127271A2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2007127271 A2 20071108; WO 2007127271 A3 20081211**; EP 2019972 A2 20090204; EP 2019972 A4 20101201

DOCDB simple family (application)  
**US 2007010074 W 20070424**; EP 07776216 A 20070424