

Title (en)  
Underwater antenna

Title (de)  
Unterwasserantenne

Title (fr)  
Antenne d'eau souterraine

Publication  
**EP 2200017 A3 20121226 (DE)**

Application  
**EP 09177541 A 20091130**

Priority  
DE 102008064002 A 20081219

Abstract (en)  
[origin: EP2200017A2] The antenna has a converter arrangement (16) consisting of electro-acoustic converters i.e. hydrophones, which are attached to a metal plate (19). The converter arrangement is displaced in a sound incidence direction of a reflector (15). An electro-acoustic assembly unit (13) is accommodated in an acoustic transparent enveloping body segment and is attached to the body segment by a soft material body (20). The body segment comprises brackets and is fixed at an antenna carrier with the brackets by an acoustic decoupling unit.

IPC 8 full level  
**G10K 11/00** (2006.01)

CPC (source: EP KR)  
**B63G 8/39** (2013.01 - EP KR); **G10K 11/008** (2013.01 - EP KR); **H01Q 1/04** (2013.01 - KR); **H01Q 1/1207** (2013.01 - KR); **H01Q 1/34** (2013.01 - KR)

Citation (search report)

- [A] DE 102006060796 A1 20080626 - ATLAS ELEKTRONIK GMBH [DE]
- [AD] DE 4339798 A1 19950524 - STN ATLAS ELEKTRONIK GMBH [DE]
- [AD] DE 3834669 A1 19960704 - STN ATLAS ELEKTRONIK GMBH [DE]
- [AD] EP 0274685 A2 19880720 - KRUPP ATLAS ELEKTRONIK GMBH [DE]
- [A] DE 60209941 T2 20061130 - THALES SA [FR]
- [A] US 5047996 A 19910910 - ARMIGER RONALD E [US], et al

Cited by  
CN112713388A; WO2018059613A1; US11395064B1; WO2022154893A1; EP3266019B1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**EP 2200017 A2 20100623; EP 2200017 A3 20121226; EP 2200017 B1 20150422**; DE 102008064002 A1 20100624; KR 101079528 B1 20111103; KR 20100071936 A 20100629

DOCDB simple family (application)  
**EP 09177541 A 20091130**; DE 102008064002 A 20081219; KR 20090127242 A 20091218