

Title (en)  
Electroacoustic underwater antenna

Title (de)  
Elektroakustische Unterwasserantenne

Title (fr)  
Antenne électro-acoustique sous-marine

Publication  
**EP 2244249 B1 20130320 (DE)**

Application  
**EP 10157817 A 20100325**

Priority  
DE 102009018624 A 20090423

Abstract (en)  
[origin: EP2244249A1] The electro-acoustic underwater antenna has a reflector (11) and resilient elements defining the reflector on an antenna carrier (10), particularly on a boat hull of a submarine. The resilient elements have upper and lower resilient levers (19,20). The levers extend on the horizontal dimension of the reflector in attached position and have front attachment shanks (191,201) for attachment and fixing to the reflector. The rear attachment shanks (192,202) are provided for attachment and fixing to the antenna carrier. The upper lever has a U-shaped profile.

IPC 8 full level  
**G10K 11/00** (2006.01); **B63G 8/39** (2006.01)

CPC (source: EP KR US)  
**B63G 8/39** (2013.01 - EP KR US); **G10K 11/006** (2013.01 - EP KR US); **H01Q 1/04** (2013.01 - KR); **H01Q 1/1207** (2013.01 - KR); **H01Q 15/14** (2013.01 - KR)

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

DOCDB simple family (publication)  
**EP 2244249 A1 20101027; EP 2244249 B1 20130320**; AU 2010201124 A1 20101111; AU 2010201124 B2 20110609; CA 2701320 A1 20101023; CA 2701320 C 20140812; DE 102009018624 B3 20101104; ES 2405751 T3 20130603; IL 204765 A0 20101130; IL 204765 A 20141130; KR 101116107 B1 20120217; KR 20100117049 A 20101102; RU 2010116045 A 20111027; RU 2449495 C2 20120427; US 2010271907 A1 20101028; US 8400878 B2 20130319

DOCDB simple family (application)  
**EP 10157817 A 20100325**; AU 2010201124 A 20100322; CA 2701320 A 20100422; DE 102009018624 A 20090423; ES 10157817 T 20100325; IL 20476510 A 20100325; KR 20100038088 A 20100423; RU 2010116045 A 20100422; US 76633610 A 20100423