

Title (en)
ELECTROACOUSTIC UNDERWATER ANTENNA

Title (de)
ELEKTROAKUSTISCHE UNTERWASSERANTENNE

Title (fr)
ANTENNE SUBAQUATIQUE ELECTROACOUSTIQUE

Publication
EP 1789312 B1 20080827 (DE)

Application
EP 05756509 A 20050615

Priority
• EP 2005006382 W 20050615
• DE 102004037987 A 20040805

Abstract (en)
[origin: US7800980B2] An electroacoustic underwater antenna, particularly a lateral antenna which can be fixed to the outer hull of an underwater craft, comprising a series of hydrophones (13) successively arranged in at least one elongate, closed, oil-filled cavity at a distance from each other. The aim of the invention is to achieve a high degree of reception sensitivity in the low frequency range with a sufficiently small, vertical aperture angle. The inventive device is easy to produce and mount and is characterized by several cavities (14) which are fitted with hydrophones (13) at a parallel distance from each other, arranged in front of a rigid plate (12) at a distance therefrom. The plate (12) and the cavities (14) are formed in a panel-type, acoustically transparent plastic element (11). Several of said plastic elements (11) are arranged close to each other or behind each other.

IPC 8 full level
B63G 8/39 (2006.01)

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

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 MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2009190442 A1 20090730; **US 7800980 B2 20100921**; AT E406306 T1 20080915; AU 2005270542 A1 20060216;
AU 2005270542 B2 20100722; DE 102004037987 A1 20060223; DE 502005005210 D1 20081009; EP 1789312 A1 20070530;
EP 1789312 B1 20080827; ES 2310833 T3 20090116; IL 179950 A0 20070515; IL 179950 A 20110531; KR 101088246 B1 20111130;
KR 20070036750 A 20070403; NO 20071212 L 20070305; NO 337815 B1 20160627; PT 1789312 E 20081125; WO 2006015645 A1 20060216;
ZA 200700860 B 20080625

DOCDB simple family (application)
US 65886805 A 20050615; AT 05756509 T 20050615; AU 2005270542 A 20050615; DE 102004037987 A 20040805;
DE 502005005210 T 20050615; EP 05756509 A 20050615; EP 2005006382 W 20050615; ES 05756509 T 20050615; IL 17995006 A 20061210;
KR 20067027395 A 20050615; NO 20071212 A 20070305; PT 05756509 T 20050615; ZA 200700860 A 20070130