

Title (en)

PYRO-ACOUSTIC GENERATOR FOR PROTECTING SUBMARINES AND SURFACE SHIPS

Title (de)

GENERATOR ZUR PYROTECHNISCHEN ERZEUGUNG VON AKUSTISCHEN DRUCKWELLEN ZUM SCHUTZ VON SCHIFFEN UND UNTERSEEBOTEN

Title (fr)

GENERATEUR PYROACOUSTIQUE POUR LA PROTECTION DE SOUS-MARINS ET DE BATIMENTS DE SURFACE

Publication

EP 1034411 B1 20030409 (FR)

Application

EP 98958287 A 19981201

Priority

- FR 9802578 W 19981201
- FR 9715144 A 19971202

Abstract (en)

[origin: FR2771805A1] The invention concerns a pyro-acoustic device for protecting submarines and surface ships, characterised in that it comprises: a structure (240) for forming a controlled underwater positioning device; and a housing (100) linked with the positioning structure, said housing (100) containing: a plurality of payloads (110) each for generating an acoustic effect; and control means (125, 126; 140; 121) for initiating, according to a controlled sequence, said plurality of payloads (110).

IPC 1-7

F42B 12/36; F42B 12/60; B63G 9/02; F41H 11/02; F42B 12/70; H04K 3/00

IPC 8 full level

B63G 9/02 (2006.01); **F41H 11/02** (2006.01); **F42B 12/36** (2006.01); **F42B 12/60** (2006.01); **F42B 12/70** (2006.01); **H04K 3/00** (2006.01)

CPC (source: EP US)

B63G 9/02 (2013.01 - EP US); **F41H 11/02** (2013.01 - EP US); **F42B 12/36** (2013.01 - EP US); **F42B 12/60** (2013.01 - EP US); **F42B 12/70** (2013.01 - EP US); **H04K 3/65** (2013.01 - EP US); **H04K 3/825** (2013.01 - EP US); **H04K 2203/12** (2013.01 - EP US); **H04K 2203/22** (2013.01 - EP US); **H04K 2203/24** (2013.01 - EP US)

Cited by

US4741752A

Designated contracting state (EPC)

DE GB IT SE

DOCDB simple family (publication)

FR 2771805 A1 19990604; **FR 2771805 B1 20000218**; AU 1438299 A 19990616; AU 737923 B2 20010906; CA 2312780 A1 19990610; DE 69813285 D1 20030515; DE 69813285 T2 20040401; EP 1034411 A1 20000913; EP 1034411 B1 20030409; US 6430108 B1 20020806; WO 9928699 A1 19990610; ZA 9810969 B 19990601

DOCDB simple family (application)

FR 9715144 A 19971202; AU 1438299 A 19981201; CA 2312780 A 19981201; DE 69813285 T 19981201; EP 98958287 A 19981201; FR 9802578 W 19981201; US 58127300 A 20001016; ZA 9810969 A 19981201