

Title (en)  
METHOD AND DEVICE FOR ACOUSTIC INSULATION

Title (de)  
VERFAHREN UND VORRICHTUNG ZUM SCHALLSCHUTZ

Title (fr)  
PROCÉDÉ ET DISPOSITIF DESTINÉS À L'ISOLATION ACOUSTIQUE

Publication  
**EP 3214226 B1 20190911 (DE)**

Application  
**EP 17166530 A 20130201**

Priority  
• DE 102012202132 A 20120213  
• EP 13153573 A 20130201

Abstract (en)  
[origin: EP2631368A2] The device has a pipeline (10) i.e. hose (11), fixed on a sea-bottom by dead weight and comprising a wall with holes. A compressor introduces compressed air into the pipeline. The pipeline has a longitudinal portion in which a loading body (101) is inserted, where the loading body has a chain. The chain is made from stainless steel, and a winding device has a drum on which the pipeline is wound. A hydraulic drive drives the drum, and the winding device has a frame, where external dimension of the frame has size of a cargo container according to ISO 668.

IPC 8 full level  
**E02D 13/04** (2006.01); **E02D 13/00** (2006.01); **E02D 27/52** (2006.01)

CPC (source: EP)  
**E02D 13/005** (2013.01); **E02D 13/04** (2013.01)

Citation (opposition)  
Opponent : Hydrotechnik Lübeck GmbH  
• DE 102004043128 A1 20060309 - MENCK GMBH [DE]  
• EP 0500723 B1 19940126 - BERG MARINE AS [DK]  
• DE 8417513 U1 19841025  
• AU 2978667 A 19700521  
• DE 3532511 A1 19860911 - BRENNENSTUHL KG HUGO [DE]  
• DE 3337344 C2  
• B. WÜRSIG ET AL.: "Development of an air bubble curtain to reduce underwater noise of percussive piling", MARINE ENVIRONMENTAL RESEARCH, vol. 49, 2000, pages 79 - 93, XP055745594  
• ENTWICKLUNG UND ERPROBUNG DES GROSSEN BLASENSCHLEIERS ZUR MINDERUNG DER HYDROSCHALLEMISSIONEN BEI OFFSHORE-RAMMARBEITEN KURZBEZEICHNUNG: HYDROSCHALL-OFF BW II FKZ 0325309A 2. ZWISCHENBERICHTFEBRUAR 2012, February 2012 (2012-02-01), XP055745597  
• TRIANEL: "Provision and Operation of Noise Mitigation Big Bubble Curtain. Document number 13.130236.00/30/001R", SCOPE OF WORK TRIANEL, 1 November 2010 (2010-11-01), pages 1 - 6, XP055745603  
• ENTWICKLUNG UND ERPROBUNG DES GROSSEN BLASENSCHLEIERS ZUR MINDERUNG DER HYDROSCHALLEMISSIONEN BEI OFFSHORE-RAMMARBEITEN, 28 March 2011 (2011-03-28)

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**DE 202013100564 U1 20130215**; DE 102012202132 A1 20130814; DE 102012202132 B4 20231228; DE 202013012109 U1 20150422; DK 201500125 U1 20150925; DK 201500125 Y4 20160610; DK 2631368 T3 20170724; DK 3214226 T3 20191216; EP 2631368 A2 20130828; EP 2631368 A3 20160309; EP 2631368 B1 20170419; EP 3214226 A1 20170906; EP 3214226 B1 20190911; EP 3626888 A1 20200325; PL 2631368 T3 20170929; PL 3214226 T3 20200331

DOCDB simple family (application)  
**DE 202013100564 U 20130207**; DE 102012202132 A 20120213; DE 202013012109 U 20130201; DK 13153573 T 20130201; DK 17166530 T 20130201; DK BA201500125 U 20150915; EP 13153573 A 20130201; EP 17166530 A 20130201; EP 19196197 A 20130201; PL 13153573 T 20130201; PL 17166530 T 20130201