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(71) Applicant: AL.DA. S.r.l.  
19037 Santo Stefano di Magra (SP) (IT)

(72) Inventors:  

- Merope, Giovanni  
19037, Santo Stefano di Magra (LA SPEZIA) (IT)
- Peroni, Pierangelo  
54011, Aulla (Massa) (IT)

(74) Representative: Gotra, Stefano  
BUGNION S.p.A.  
Largo Michele Novaro, 1/A  
43100 Parma (IT)

### (54) A method and apparatus for making nautical mooring lines emerge from a sea-floor

(57) An apparatus for making nautical mooring lines (8) emerge from a sea-floor comprises:

- an element (11) connected to at least one mooring line (8) lying on the sea-bottom and connected directly or indirectly to a sinker (7), said element (11) being so shaped as to retain air blown into it;  
- means (4) for blowing air into the element (11) in such a way as to cause it temporarily to surface.

The method provides for blowing air into an element (11) connected to at least one line (8) lying on the sea-bottom in such a way as to cause it temporarily to surface.

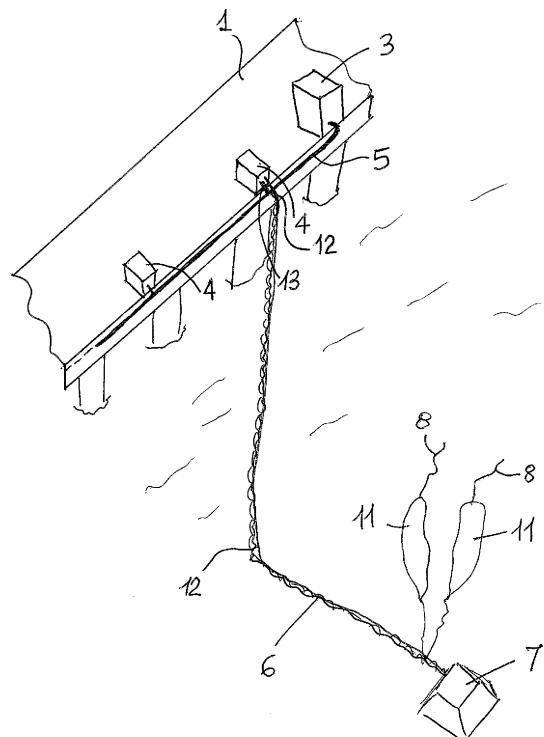


FIG. 1



DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (IPC)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
X	EP 0 502 219 A (CALMAT AB [SE]) 9 September 1992 (1992-09-09) * column 1, line 47 - column 2, line 30 * * column 3, lines 4-42 * * figures 1,2 * -----	1-11	INV. B63B22/02
X	DE 34 32 868 A1 (LEMPEN SYBILLE [DE]) 20 March 1986 (1986-03-20) * page 10, line 13 - page 11, line 25 * * page 12, lines 20-27 * * figures 1-3 *	1-11	
X	EP 1 314 641 A (LEHMISCH THOMAS [DE]; STENZEL STEFAN [DE]) 28 May 2003 (2003-05-28) * paragraphs [0011], [0021] - [0023]; figures 1-3 *	1-3,6-8, 10,11	
X	FR 2 813 578 A (OETTINGER OLAF OLIVER [FR]) 8 March 2002 (2002-03-08) * page 4, lines 24-27; figures 1,2 * * page 5, line 28 - page 6, line 14 * * figures 1,2 *	1-3,5,7, 8,10,11	TECHNICAL FIELDS SEARCHED (IPC)
X	FR 2 813 579 A (OETTINGER OLAF OLIVER [FR]) 8 March 2002 (2002-03-08) * page 6, lines 12-36 - pages 1-4 *	1-3,5,7, 8,10,11	B63B
X	EP 1 186 528 A (OETTINGER OLAF OLIVER [FR]) 13 March 2002 (2002-03-13) * paragraphs [0022] - [0024], [0031]; figures 1-4 *	1-3,7,8, 10,11	
The present search report has been drawn up for all claims			
2	Place of search Munich	Date of completion of the search 25 February 2008	Examiner Brumer, Alexandre
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			
T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document			

ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.

EP 07 11 1865

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on. The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

25-02-2008

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
EP 0502219	A	09-09-1992		NONE		
DE 3432868	A1	20-03-1986		NONE		
EP 1314641	A	28-05-2003	DE	10157313 A1		05-06-2003
FR 2813578	A	08-03-2002		NONE		
FR 2813579	A	08-03-2002		NONE		
EP 1186528	A	13-03-2002		NONE		