



(11) **EP 1 950 720 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
**18.02.2009 Bulletin 2009/08**

(51) Int Cl.:  
**G08B 21/08 (2006.01)**

(43) Date of publication A2:  
**30.07.2008 Bulletin 2008/31**

(21) Application number: **08100223.0**

(22) Date of filing: **08.01.2008**

(84) Designated Contracting States:  
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR  
HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT  
RO SE SI SK TR**  
Designated Extension States:  
**AL BA MK RS**

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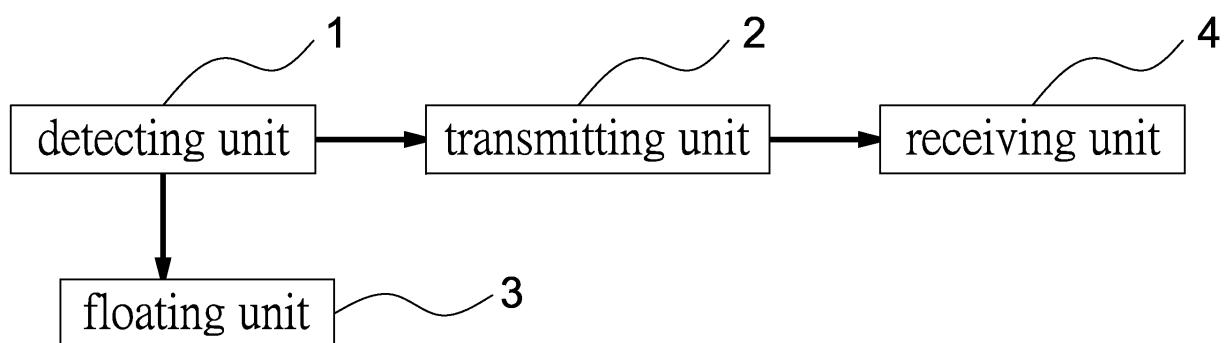
(30) Priority: **18.01.2007 TW 96101957**

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(54) **Apparatus for preventing and warning of drowning**

(57) There is disclosed an apparatus for preventing and warning of drowning and warning others of the emergency. The apparatus includes a detecting unit for detecting the drowning of a swimmer, a floating unit for floating the swimmer under the control of the detecting unit, a transmitting unit for transmitting a warning signal under

the control of the detecting unit and a receiving unit for receiving the warning signal and locating the swimmer. The detecting unit comprises a timer for determining how long the swimmer is underwater. The device can be worn by the swimmer, for example in the form of a pair of goggles.



**Fig. 1**



## EUROPEAN SEARCH REPORT

Application Number  
EP 08 10 0223

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 5 408 222 A (YAFFE YACOB [IL] ET AL) 18 April 1995 (1995-04-18) * column 3, line 35 - column 5, line 42; figures 1-3,5,6 *	1-4	INV. G08B21/08
Y		5,6	
A	DE 101 16 000 A1 (KLEIN HANS-PETER [DE]; PESE PAUL JOHANN [DE]) 2 October 2002 (2002-10-02) * paragraphs [0003] - [0005], [0018] - [0032] *	1	
Y	* paragraph [0033] *	5,6	
A	US 6 154 140 A (THORPE STEVEN W [US] ET AL) 28 November 2000 (2000-11-28) * column 3, lines 16-19 *		
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC)
			G08B
Place of search		Date of completion of the search	Examiner
Munich		9 January 2009	Russo, Michela
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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 ..... &amp; : member of the same patent family, corresponding document</p>			

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EPO FORM 1503 03.02 (P04C01)

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

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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  
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09-01-2009

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5408222 A	18-04-1995	AU 668312 B2 AU 6892594 A	26-04-1996 23-03-1995
DE 10116000 A1	02-10-2002	NONE	
US 6154140 A	28-11-2000	NONE	