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(72) Inventor: **Taskula, Kari**
00760 Helsinki (FI)

(74) Representative:
Järveläinen, Pertti Tauno Juhani et al
Heinänen Oy
Annankatu 31-33 C
00100 Helsinki (FI)

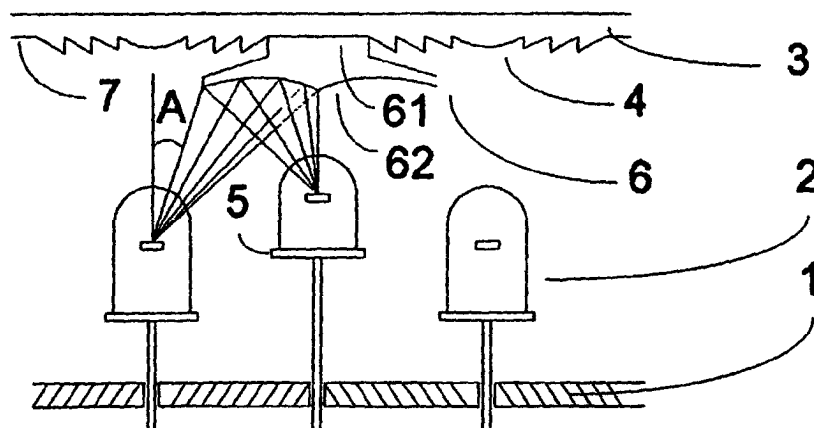
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(71) Applicant: **Oy Sabik AB**
07370 Pellinki (FI)

(54) **Apparatus for monitoring and controlling a traffic control light**

(57) An apparatus for monitoring and/or controlling a traffic control light, the light source of said control light consisting of LEDs (2) connected on a circuit board (1), said control light being controlled by means of a control unit, and said control light comprising a lens dome part (3) which is fitted in front of the LEDs and contains transparent light directing elements (4), and said apparatus comprising detectors (5) disposed in connection with the

LEDs used as light sources on the same side of the circuit board (1) with these, some of the light reflected from the LEDs being directed to said detectors, which are used to provide optical feedback for the monitoring and/or control of the operation of the control light. The apparatus comprises non-transparent reflectors (6) arranged between the light directing elements to reflect some of the light emitted by the LEDs (2) in the direction of illumination to the detectors (5).





European Patent
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EUROPEAN SEARCH REPORT

Application Number
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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
D,A	EP 0 974 947 A (SIEMENS AG) 26 January 2000 (2000-01-26) * column 5, line 41 - column 6, line 7; figure 2 *	1	G08G1/095
A	----- US 4 182 977 A (STRICKLIN ROBERT S JR) 8 January 1980 (1980-01-08) * column 3, line 11 - line 24; figure 4 *	1	
A	----- WO 98/49872 A (BEARFIELD GEORGE JOSEPH ; WAREING JAMES IAN (GB); ROBINSON MAX (GB); S) 5 November 1998 (1998-11-05) * page 9, line 10 - page 10, line 25; figures 2,4 *	1	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			G08G H05B F21V G08B H04B
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 21 October 2004	Examiner Wagner, U
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			

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**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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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0974947	A	26-01-2000	EP 0974947 A1	26-01-2000
US 4182977	A	08-01-1980	NONE	
WO 9849872	A	05-11-1998	AT 221304 T	15-08-2002
			AU 7221098 A	24-11-1998
			DE 69806748 D1	29-08-2002
			DE 69806748 T2	03-07-2003
			EP 0979597 A1	16-02-2000
			WO 9849872 A1	05-11-1998