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(54) **Decorative lamps**

(57) The present invention aims at providing a durable power-saving decorative lamp (10a) whose light can be easily seen and whose light color can be easily set. The decorative lamp (10a) is a hollow and transparent glass (11) or hard resin bulb with a frosted surface containing a plurality of LED lamps (14). Each of the LED lamps is connected to a metal base (12) forming an electrode by being fixed to the base portion of the decorative lamp through an appropriate resistance, capacitor, or small circuit substrate (17,18). The LED lamps (14) are connected individually, in series, or in parallel. The surfaces of the LED lamps are processed with various treatments to have frosted-glass surfaces (25), irregular diamond-cut surfaces (28), etc. Thus, each LED lamp (14) emits light in all directions except backward from the base of the lamp, and the light can be seen from all directions, thereby providing desired decorative lamps. Furthermore, the color of light can be easily set by appropriately selecting a light emitting element of the LED lamp.

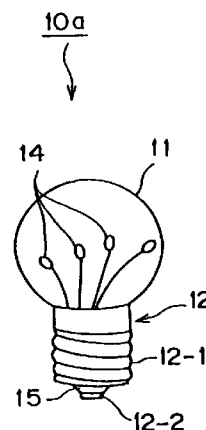


FIG. 4A

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EUROPEAN SEARCH REPORT

Application Number
EP 97 20 2322

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	US 4 211 955 A (RAY) 8 July 1980 * column 1, line 60 - column 2, line 4 * * column 2, line 21 - line 32 * * figures 1,2 * ---	1	F21P3/00 F21K7/00
A	US 4 727 289 A (UCHIDA) 23 February 1988 * column 2, line 8 - line 30 * * figure 1 * ---	1	
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A	US 5 140 220 A (HASEGAWA) 18 August 1992 * column 2, line 20 - line 45 * * column 2, line 61 - column 3, line 6 * * figures 1-3 * -----	1,4-7	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			F21P F21K H01L
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 15 April 1999	Examiner De Mas, A
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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