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(54) **Surface light source using white light emitting diodes and liquid crystal display backlight unit having the same**

(57) There is provided a surface light source (200) using white light emitting diodes (110) including: a plurality of white light emitting diodes (110) arranged at a predetermined distance (a,b,c) from one another, wherein the white light emitting diodes are arranged such that a light emitting diode unit defined by each of the white light emitting diodes and corresponding ones of the white light emitting diodes disposed at a closest distance (U) from the each white light emitting diode has a central light amount ranging from 80% to 120% with respect to an average light amount of the white light emitting diodes.

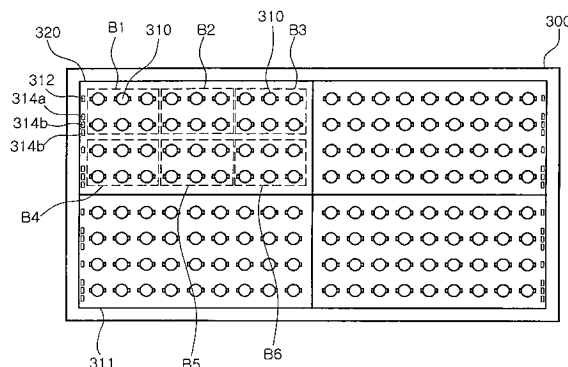


FIG. 7



EUROPEAN SEARCH REPORT

Application Number
EP 10 07 5181

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			TECHNICAL FIELDS SEARCHED (IPC)
			G02F
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 8 December 2010	Examiner Hauser, Markus
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
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EP 10 07 5181

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The members are as contained in the European Patent Office EDP file on
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专利名称(译)	使用白色发光二极管的表面光源和具有该表面光源的液晶显示器的背光单元		
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其他公开文献	EP2224280A2 EP2224280B1		
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摘要(译)

提供一种使用白色发光二极管 (110) 的面光源 (200) , 包括 : 多个白光发光二极管 (110) , 彼此以预定距离 (a , b , c) 布置 , 其中白光发光二极管被布置成使得由每个白色发光二极管限定的发光二极管单元和设置在距每个白色发光二极管最近距离 (U) 的相应白色发光二极管具有中心光量范围相对于白色发光二极管的平均光量 , 从80%到120%。

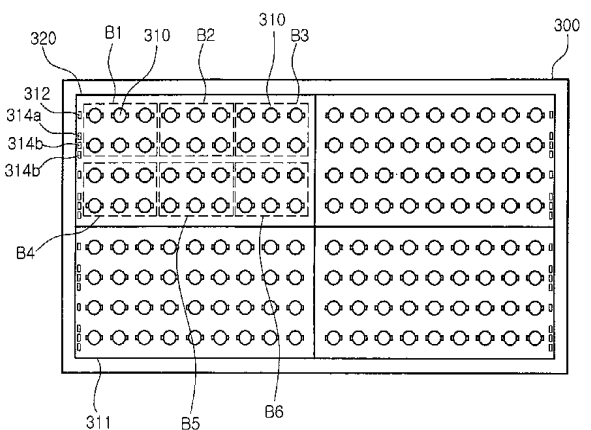


FIG. 7