



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
22.07.2009 Bulletin 2009/30

(51) Int Cl.:
G09G 3/26^(2006.01) G09G 3/34^(2006.01)

(43) Date of publication A2:
27.08.2008 Bulletin 2008/35

(21) Application number: **08100187.7**

(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

(30) Priority: **26.02.2007 KR 20070019075**

(71) Applicant: **Samsung Electronics Co., Ltd.**
Suwon-si,
Gyeonggi-do 442-742 (KR)

(72) Inventors:
• **Kang, Jeong-il**
Yongin-si,
Gyeonggi-do (KR)
• **Lee, Sang-hoon**
Suwon-si,
Gyeonggi-do (KR)
• **Kim, Su-gun**
Yongin-si,
Gyeonggi-do (KR)

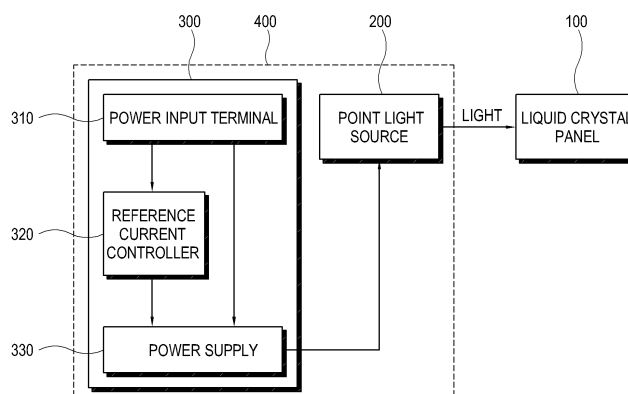
(74) Representative: **Robinson, Ian Michael**
Appleyard Lees
15 Clare Road
Halifax, West Yorkshire HX1 2HY (GB)

(54) **Backlight unit, liquid crystal display device having the same and control method thereof**

(57) A liquid crystal display device, includes: a liquid crystal panel (100); a point light source (200) which emits light to the liquid crystal panel (100); and a light source driver (300) which comprises a power input terminal (310) to receive initial power, a power supply (330) to supply

power to the point light source (200) according to the initial power and a reference current, and a reference current controller (320) to output the changed reference current according to the changed initial power, to the power supply (330).

FIG. 2





EUROPEAN SEARCH REPORT

Application Number
EP 08 10 0187

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 2005/231133 A1 (LYS IHOR A [US]) 20 October 2005 (2005-10-20) * paragraphs [0150] - [0176]; figures 12-16 * -----	1-19	INV. G09G3/26 G09G3/34
			TECHNICAL FIELDS SEARCHED (IPC)
			G09G H05B
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 5 June 2009	Examiner Bellatalla, Filippo
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			

2
EPO FORM 1503 03.82 (P04C01)

05-06-2009

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2005231133 A1	20-10-2005	US 2008012502 A1	17-01-2008

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

专利名称(译)	背光单元，具有该背光单元的液晶显示装置及其控制方法		
公开(公告)号	EP1962263A3	公开(公告)日	2009-07-22
申请号	EP2008100187	申请日	2008-01-08
[标]申请(专利权)人(译)	三星电子株式会社		
申请(专利权)人(译)	SAMSUNG ELECTRONICS CO. , LTD.		
当前申请(专利权)人(译)	SAMSUNG ELECTRONICS CO. , LTD.		
[标]发明人	KANG JEONG IL LEE SANG HOON KIM SU GUN		
发明人	KANG, JEONG-IL LEE, SANG-HOON KIM, SU-GUN		
IPC分类号	G09G3/26 G09G3/34		
CPC分类号	G09G2330/028 H05B45/14 H05B45/37 Y02B20/347		
优先权	1020070019075 2007-02-26 KR		
其他公开文献	EP1962263A2		
外部链接	Espacenet		

摘要(译)

一种液晶显示装置，包括：液晶面板（100）；点光源（200），向液晶面板（100）发光；光源驱动器（300），包括用于接收初始功率的电源输入端子（310），用于根据初始功率和参考电流向点光源（200）供电的电源（330），以及参考电流控制器（320），用于根据改变的初始功率将改变的参考电流输出到电源（330）。

FIG. 2

