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(51) Int. Cl.⁷
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 (24) 2004 12 02

(21)	10-2001-0030946	(65)	10-2001-0110181
(22)	2001 06 02	(43)	2001 12 12

(30) 2000-165449 2000 06 02 (JP)

(73) 가 가
 1 6 6

(72) 3550

가 460

가 8 14-5

3550

가 3-16-4

(74)

:

(54)

(
 (a photo conductive current), ,)

1
 2
 3 (a) 3 (a) A - A 1
 (b) 3 (a) A - A 2
 4 (a) 4 (a) B - B 3
 (b) 4 (a) B - B 4
 5
 6
 7
 8 2
 9
 10 (a) PNL 가 GTM
 , 10 (b) PNL 가) GTM
 11 9 GL (, 11 (b) (a) B - B)
 11 (a) , 11 (b) (a) B - B DTM
 12 DL , 12 (b) 12 (a) B - B CTM
 13 CL 13 (a) B - B 12 (a)
 3 (b) 13 (a) B - B 13 (a)
 14 () 가 , 1
 15 14 ()
 16 9 () ()
 17 IPS
 18 IPS

< >

SUB1, SUB2 :

GL :

DL :

CL :

PX :

CT :

GI :

GT :

ASI :

SD1, SD2 :

PSV :

BM :

LC :

TFT :

TH :

g, d :

ITO :

GTM :

DTM :

CB :

CTM :

SHD :

PNL :

SD1 ASI)가 (17 18 B ,
ASI ASI (17 18 PX A B) SD1 SD1 가
, TN 가 , , ,

) ,) , ((, 가

,
3 3 () , . , ,
3 2 , 3 , 2 , 3

; , 1 1 2

TN (: Twisted Nematic-type)

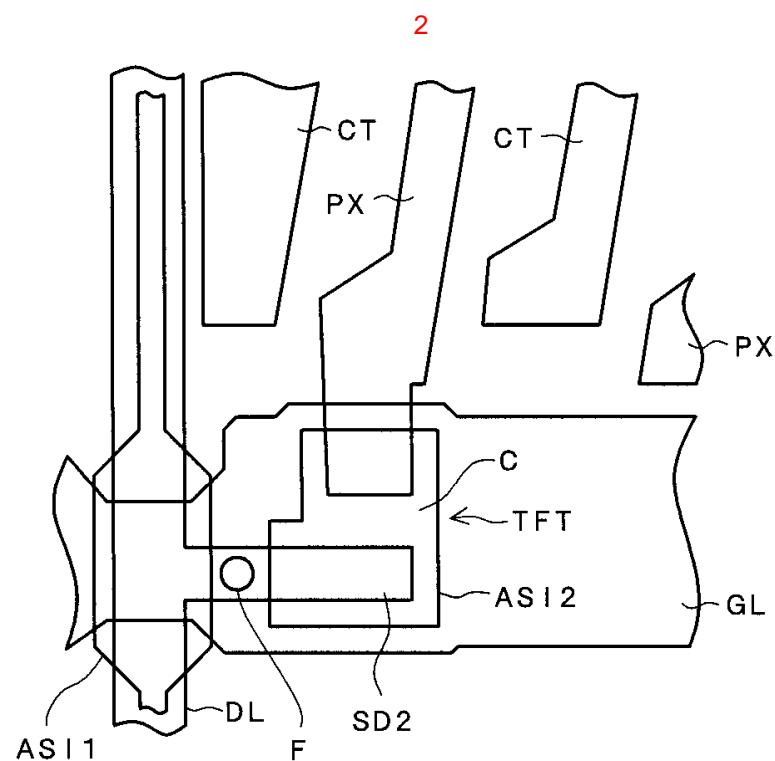
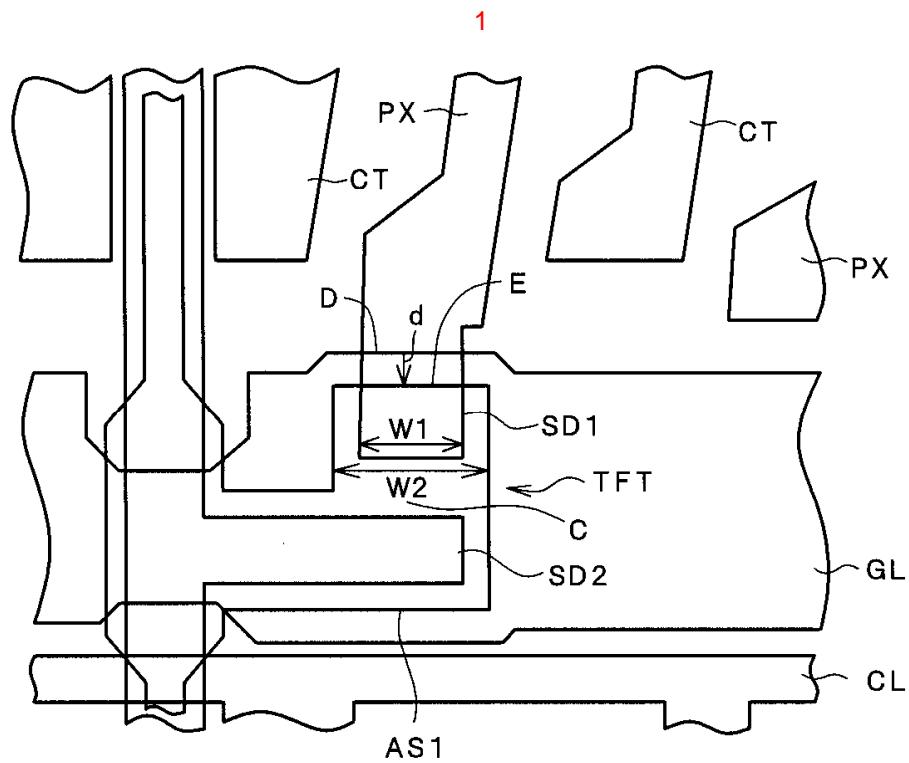
IPS

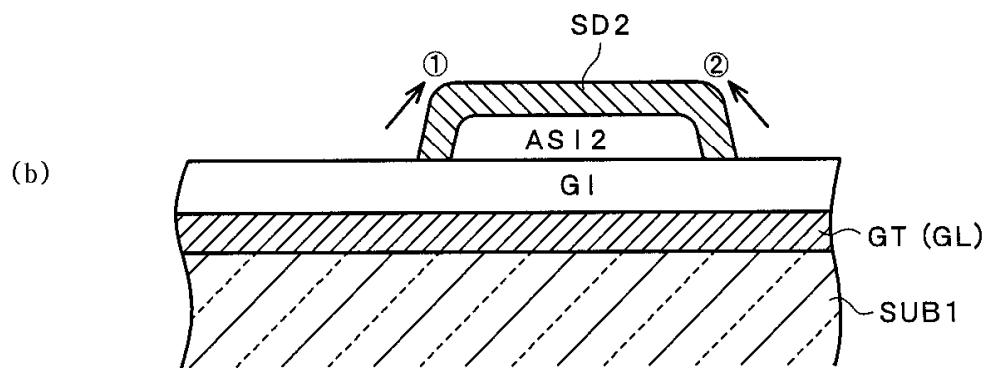
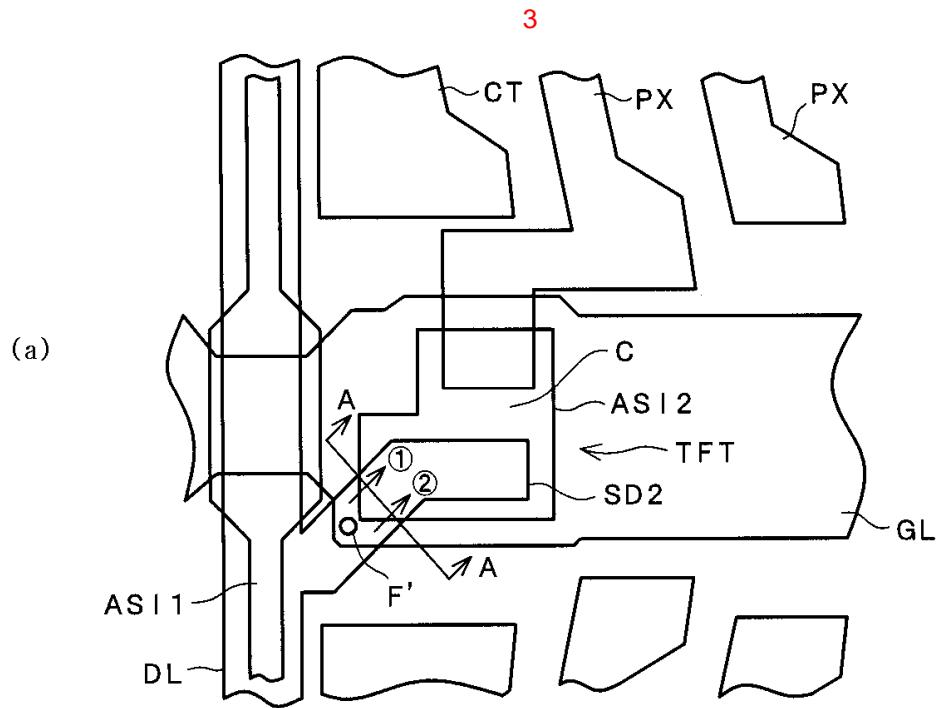
, SD1 SD2가 , ASI2 3 GL SD1
 ASI2 가 SD1 4 (b) SD2가 GL ASI2
 , GL PX SD1 SD1 ASI2 GI ASI2
) 4 (a) (b) 3 SD1 ASI2 3 ASI2 (4 (,
 4 (b) SD1 , , ,
 5 TFT ASI 2 5 GL DL ASI1
 2 , SD2가 2 ASI1 3 ASI2 SD1 ASI1 ASI2
 2 , 4 (a) 4 (a) 3
 , CL CT , PX H 가 , TH , TFT , GL SD1 , DL
 PX , V () PX CT , , ,
 2 () , , ,
 , 6 V 2 () 180° -
 , PX CT 가 가 GI 가 , PX CT
 DL GL SD1 SD2 , ASI 가 , PX TFT PX
 7 6 I-I 가 - TFT , GT
) TFT (Si) GT, i GI, i (, intrinsic, SDI, SD2)
 , SD1 SD2 , SD1 SD2
 GT GL , GL
 , GT (Cr-Mo) g1 , g1 , , 2
 GL g1 , GL g1 GT g1
 GL , GT (Cr-Mo) GT g1 , ,
 GL GL GT CL g1 , GT, GL
 CL CL g1 , CL g1 CT

	CL							
	GI	TFT GI		GT	GT	GL	ASI	
, 350nm	GI)		CVD	GI	GL	CL	, 100nm DL	$4\mu m$ (
ASId0		(P)		, 150 N(+)	2500	(	, 1200 i	) ASI가
ASI d0	d1	GL	CL	DL	GL	(CL)	DL	
SDI, N(+)	SD2 d0		, N(+)	d0 가		d1		. Cr-Mo , Cr-Mo
SD2	DL	SDI, d1	SD2				DL	
, 2500	)	Cr-Mo		(Cr-Mo)		, 500	3000 가	(
, Cr-Mo Ti, Ta, W)	N(+)		d0 (MoSi ₂ , TiSi ₂ , TaSi ₂ , WSi ₂)		d1	, Cr-Mo		(Mo,
	TFT		PSV가		PSV		TFT	
, 1μm	PSV PSV	gm	CVD GI	PSV		DTM, GTM		, 0.1μm
PX		ITO		ITO			CT	
가	CT	ITO		CL			(IZO)	가
			DL	가				
		TFT				(feedthrough)		
8			2				RDR	
	RDR 가 75°		EDR		8 가			RDR
RDR (	가	EDR 100nm)		, 45°	90°		20nm 300nm	
2			POL1	10	MAX1		POL1, POL2 RDR	
POL2		MAX2 가	(PX	가	CT) 가	
							EMI 10^{-8} /	EMI
								(
9		SUB1, SUB2 10 (a) ,	PNL		가	PNL	(AR)	GTM
		10 (b)	PNL		가			

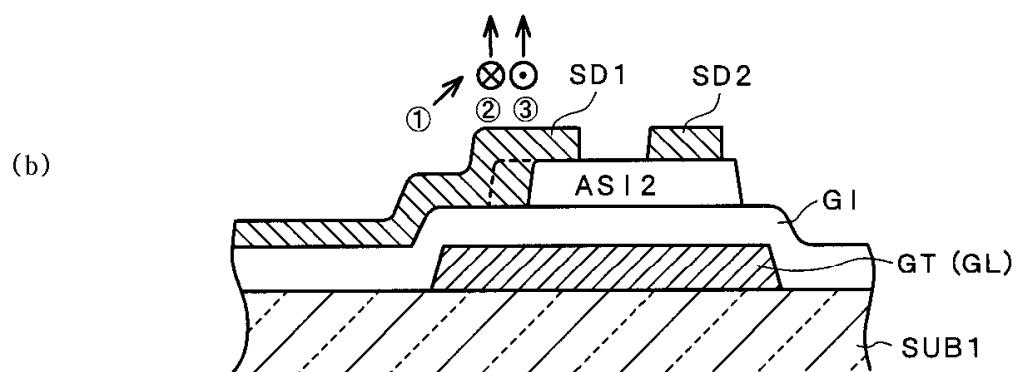
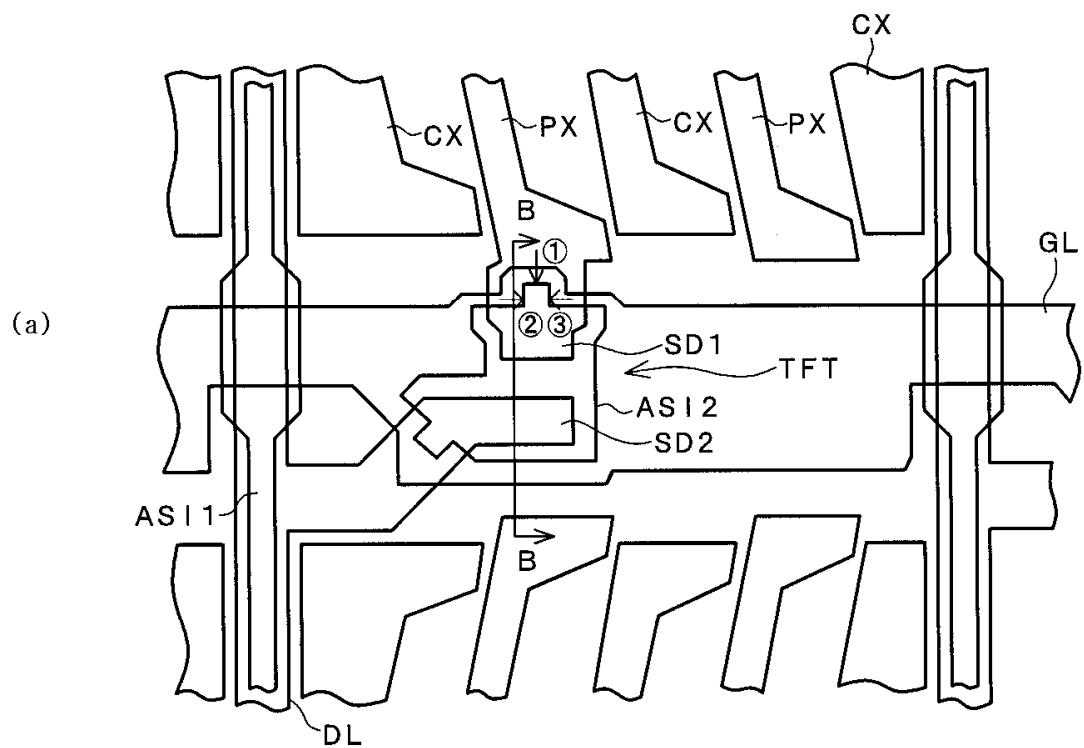
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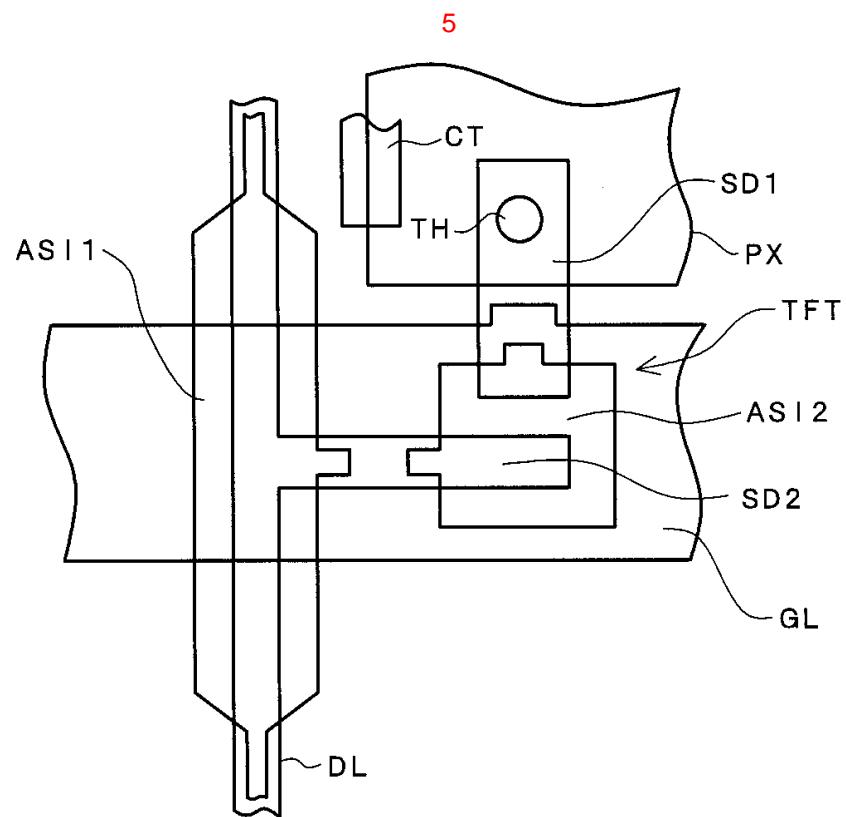
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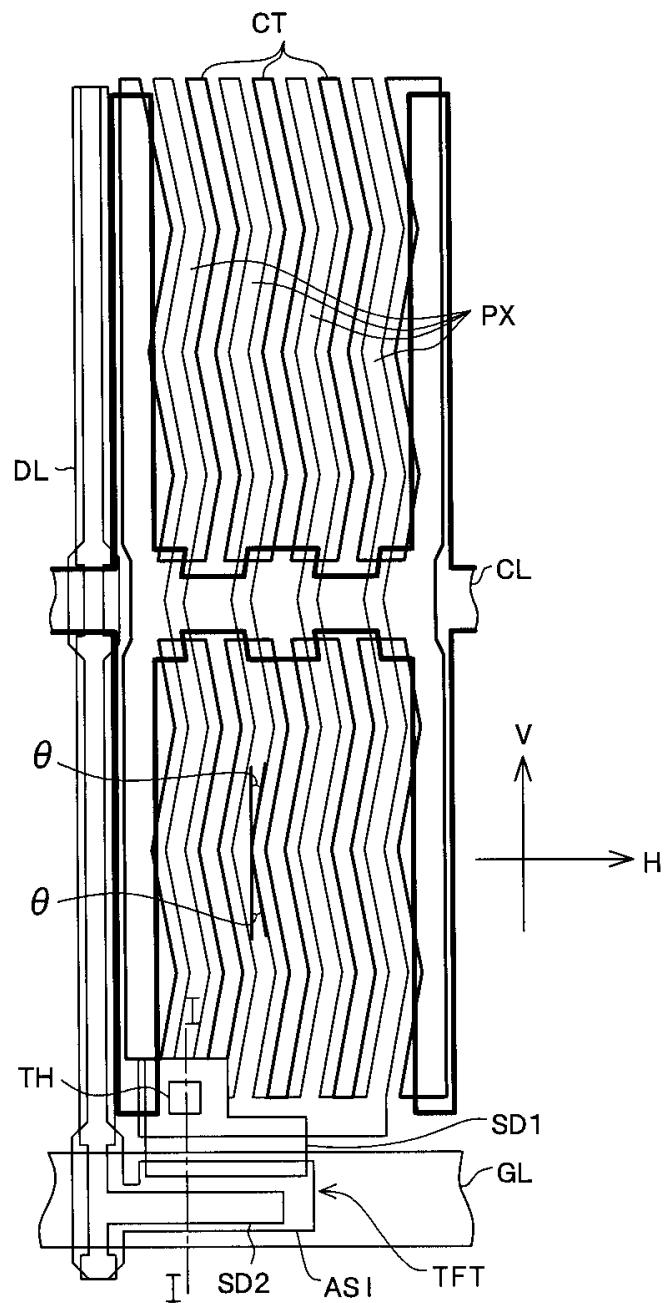


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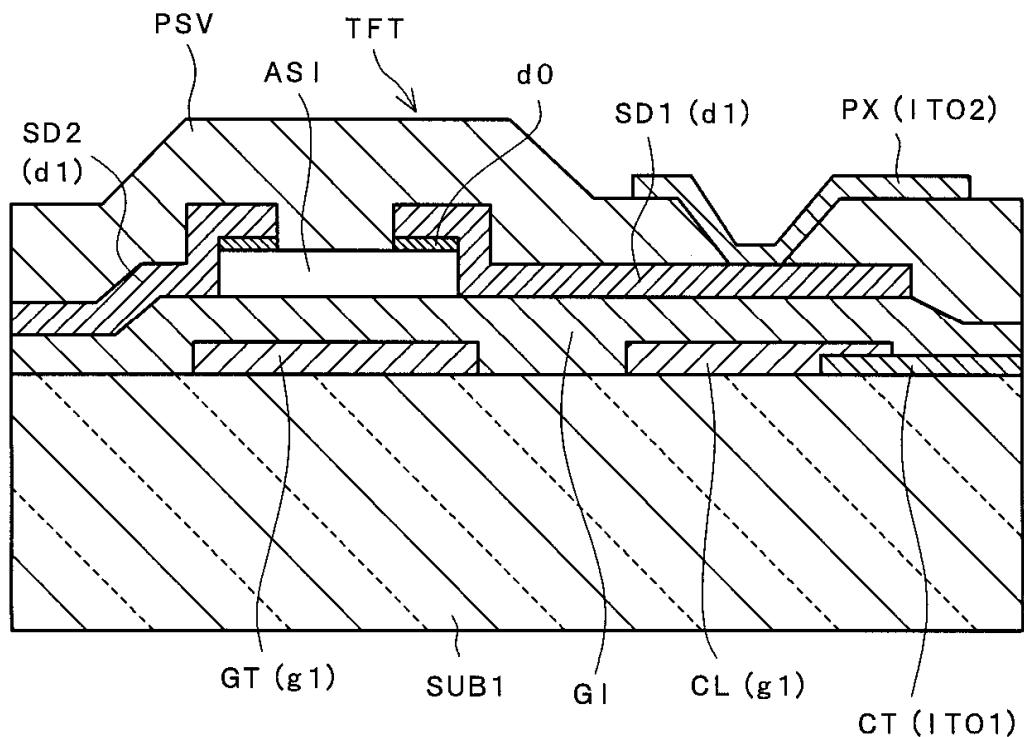




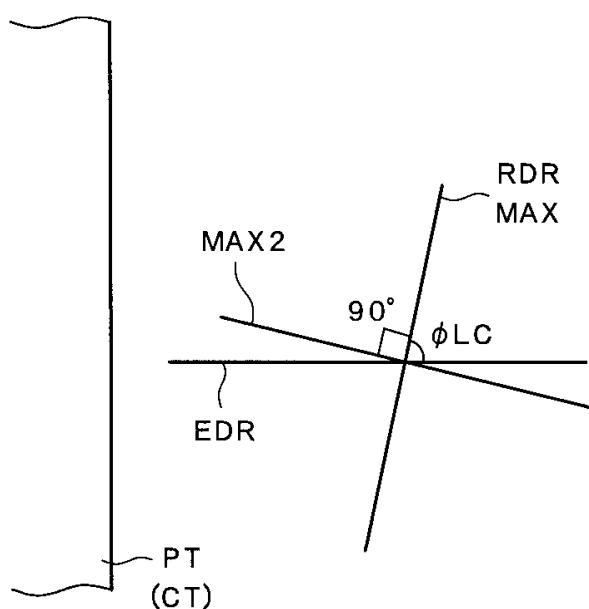
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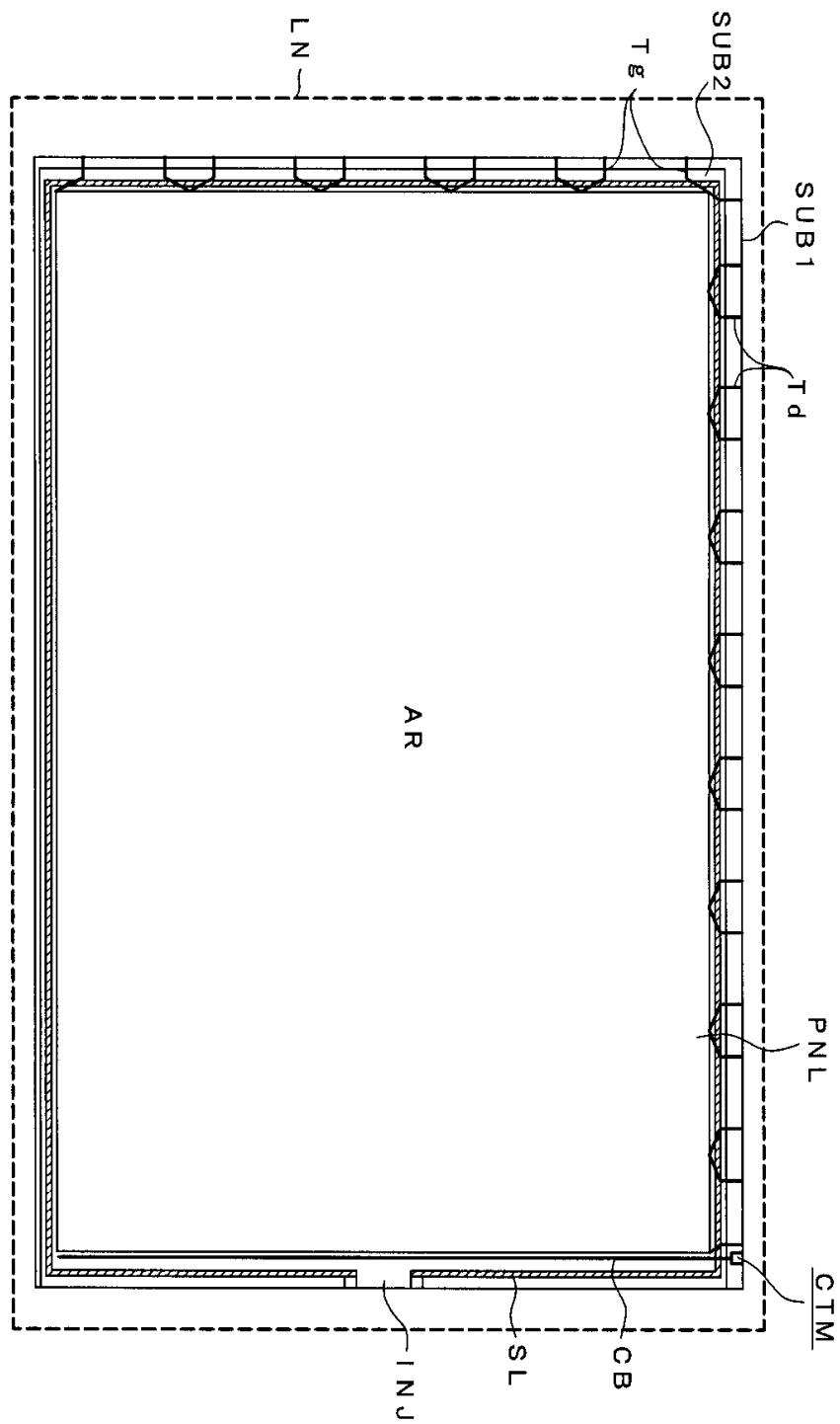
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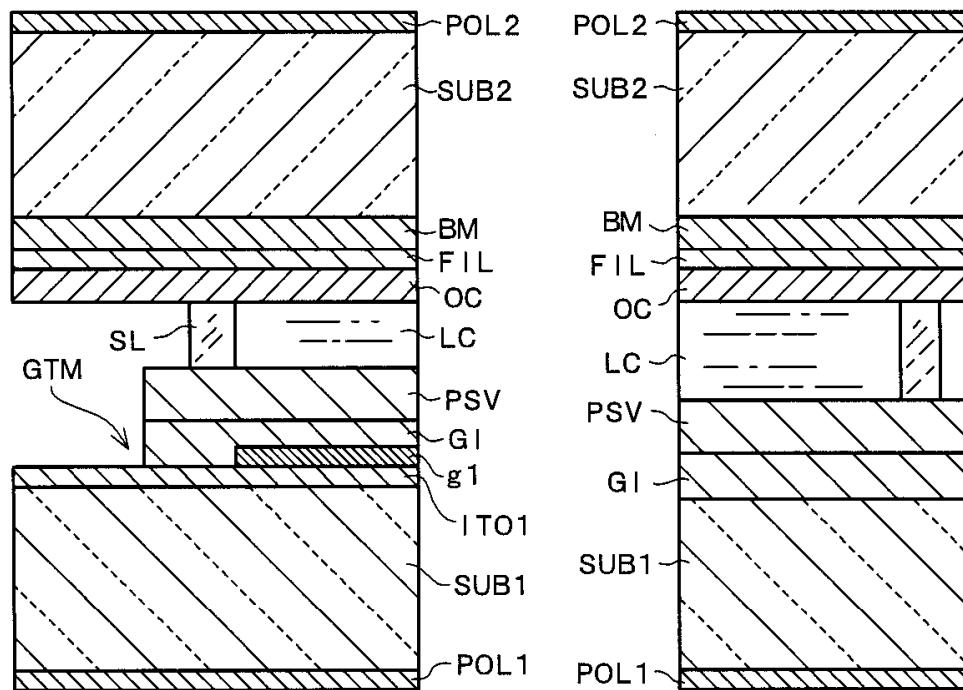
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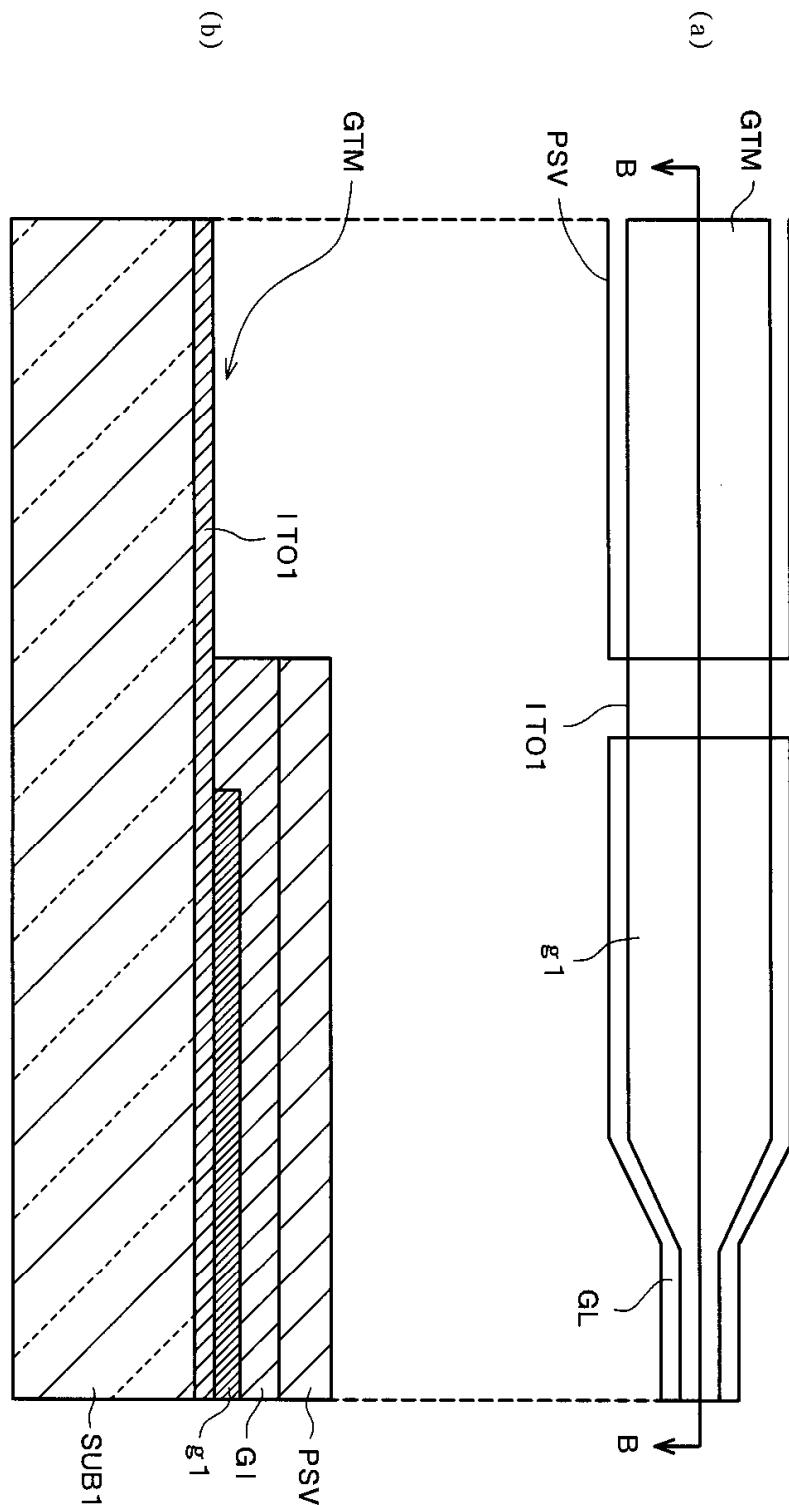
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(a)

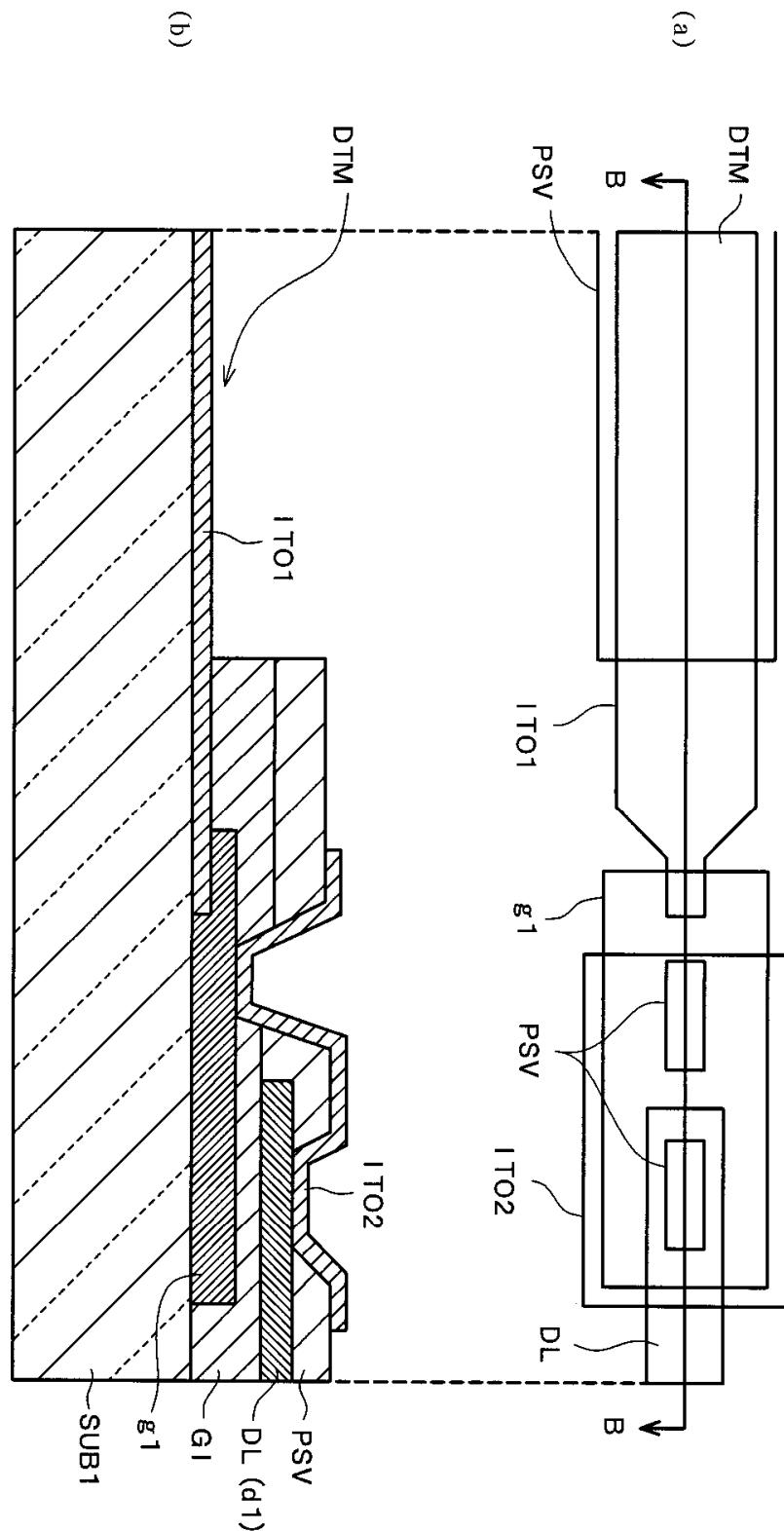
(b)



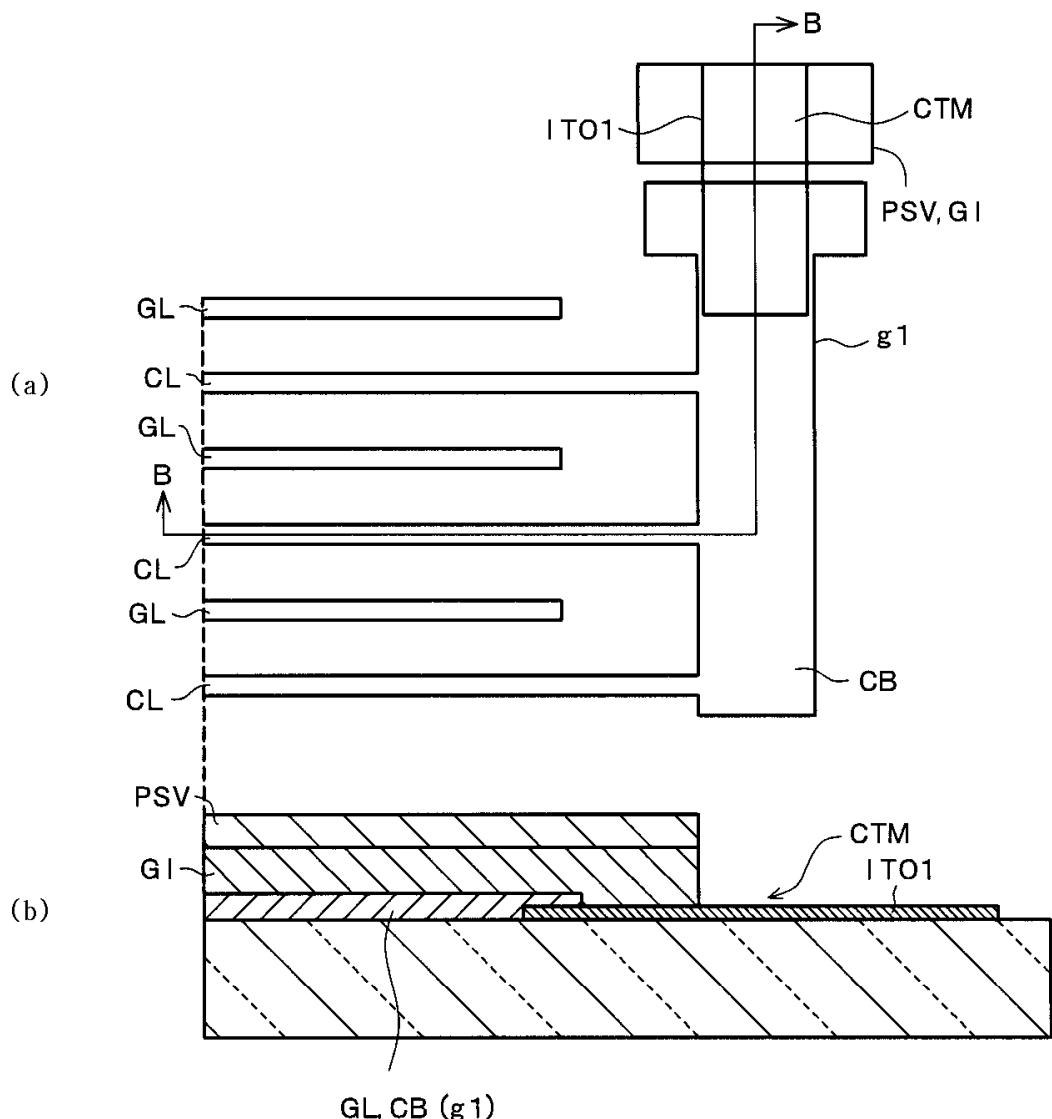
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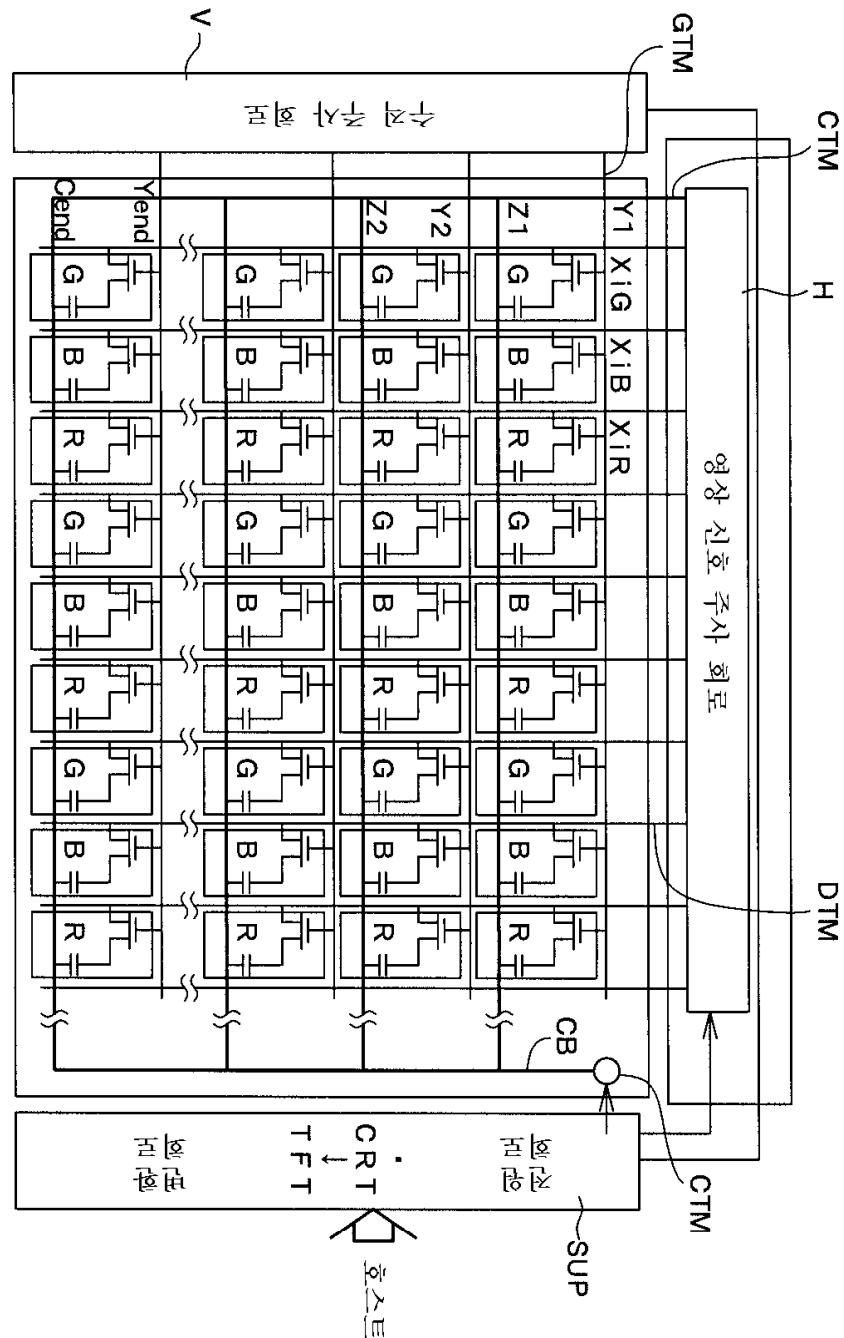
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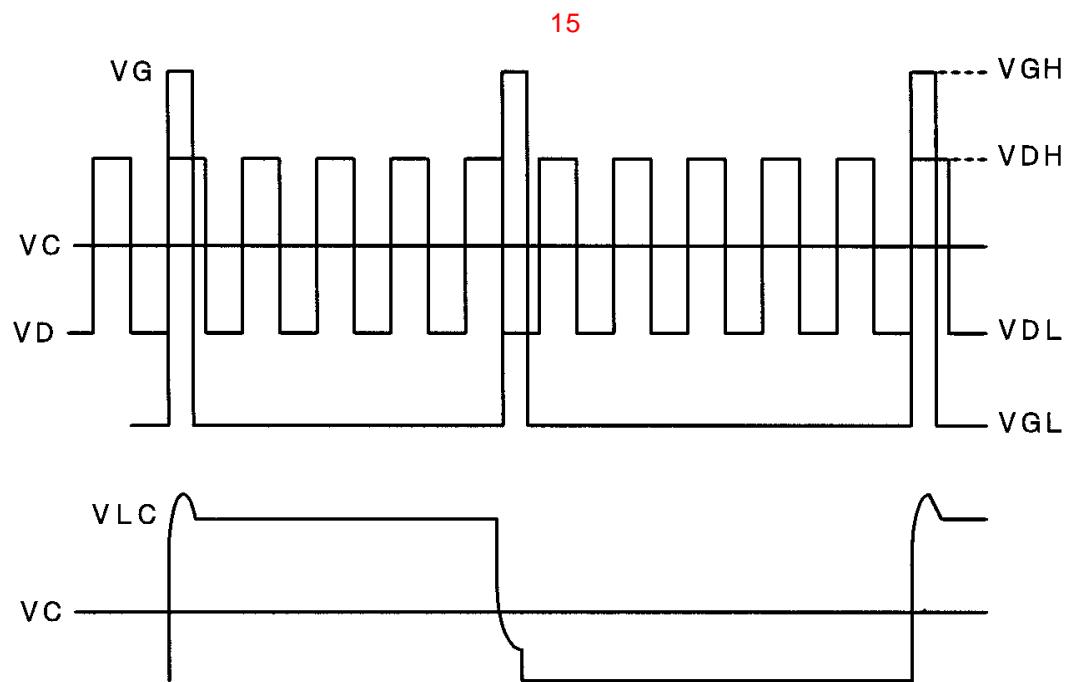


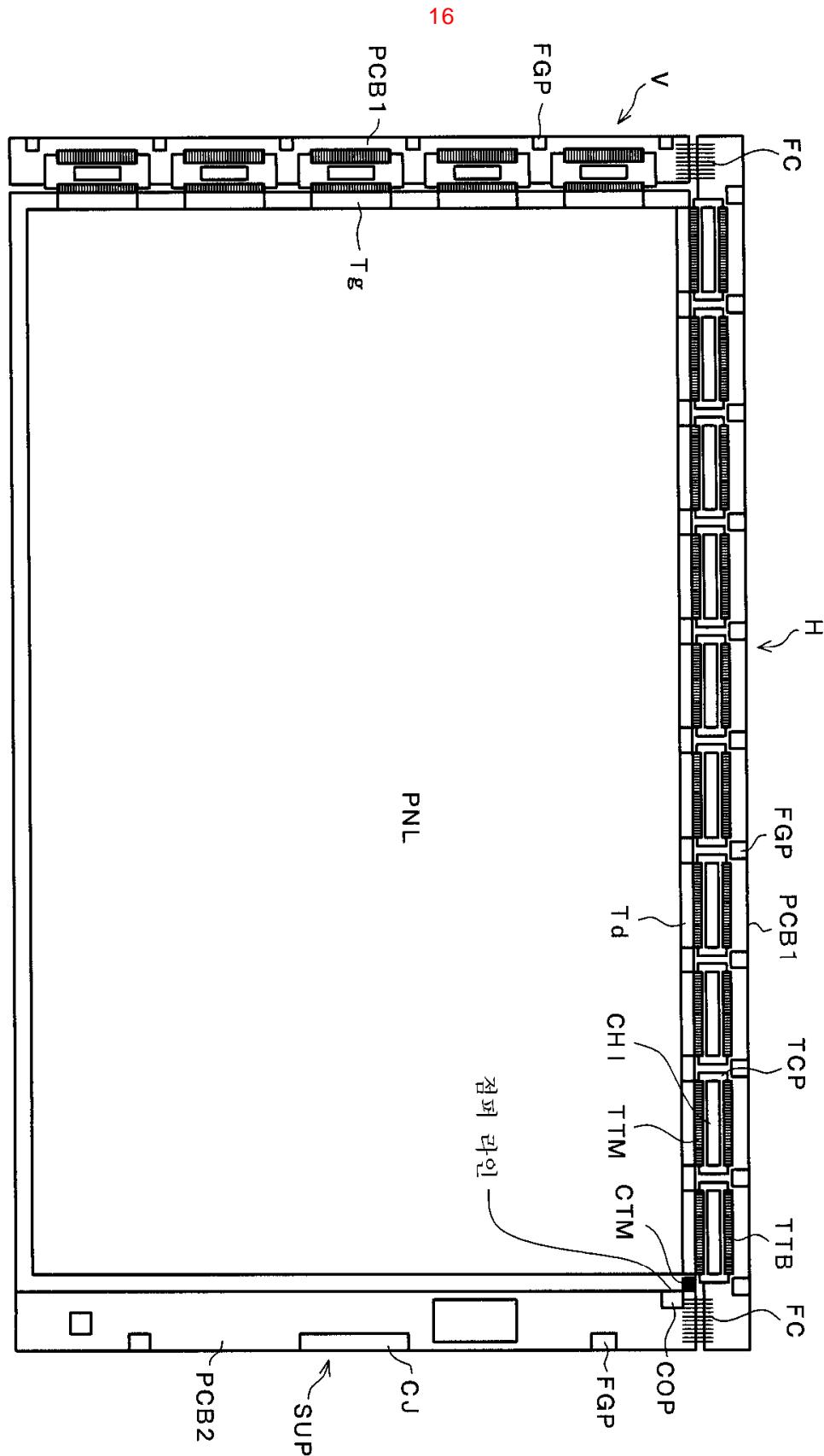
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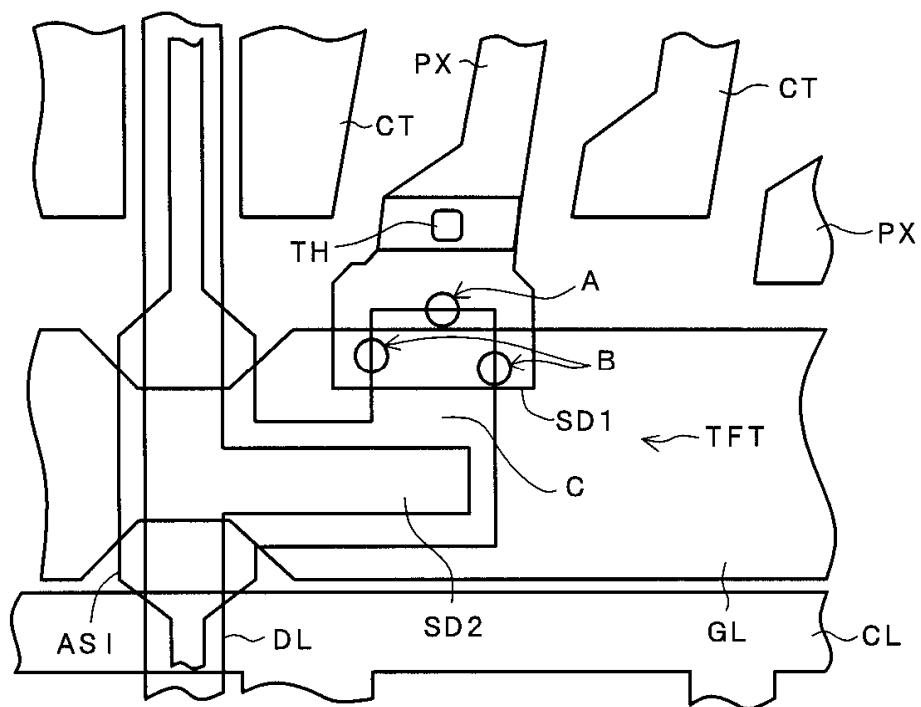
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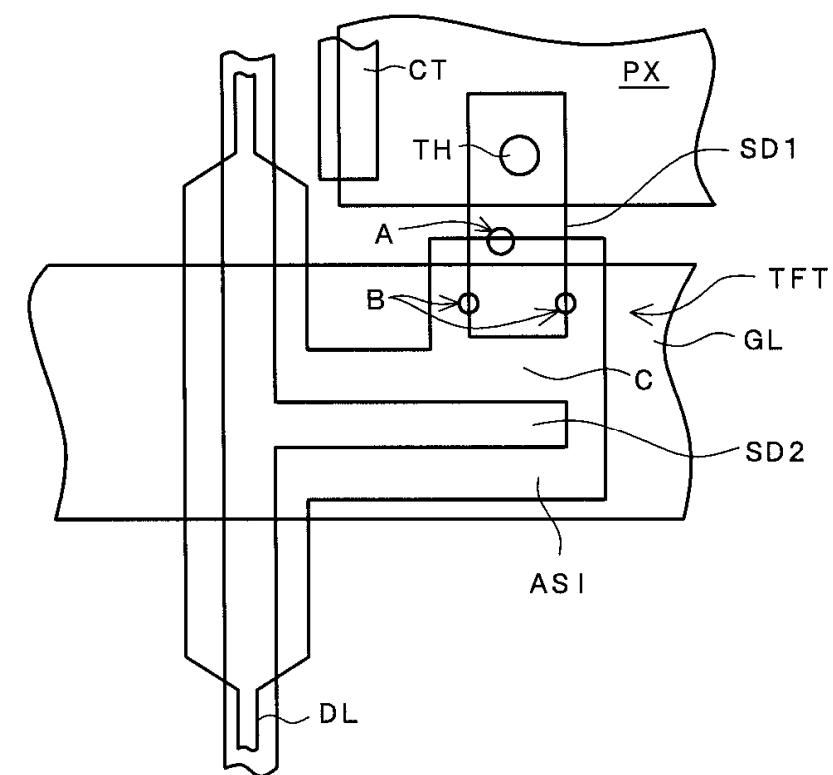




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专利名称(译)	液晶显示器		
公开(公告)号	KR100461484B1	公开(公告)日	2004-12-14
申请号	KR1020010030946	申请日	2001-06-02
[标]申请(专利权)人(译)	日立HITACHI SEISAKUSHODBA		
申请(专利权)人(译)	株式会社日立制作所		
当前申请(专利权)人(译)	株式会社日立制作所		
[标]发明人	ASHIZAWAKE ICHIRO 아시자와케이찌로 KURIYAMA HIDEKI 구리야마히데끼 TANAKA TAKESHI 다나까다케시 HASHIMOTO YUICHI 하시모도유이찌 NAKATANI MITSUO 나카타니미쓰오		
发明人	아시자와케이찌로 구리야마히데끼 다나까다케시 하시모도유이찌 나카타니미쓰오		
IPC分类号	G02F1/1343 G09F9/30 H01L21/336 H01L29/786 G02F1/136 G02F1/1368		
CPC分类号	G02F1/134363 G02F1/1368		
代理人(译)	CHANG, SOO KIL		
优先权	2000165449 2000-06-02 JP		
其他公开文献	KR1020010110181A		
外部链接	Espacenet		

摘要(译)

在其像素区域中具有薄膜晶体管的液晶显示装置中，本发明在栅极线（或薄的栅极）的轮廓内将位于薄膜晶体管中的源电极下方的半导体层布置在膜晶体管以抑制半导体层中的光导电流，或防止源电极在源电极越过半导体层的位置处破裂。

