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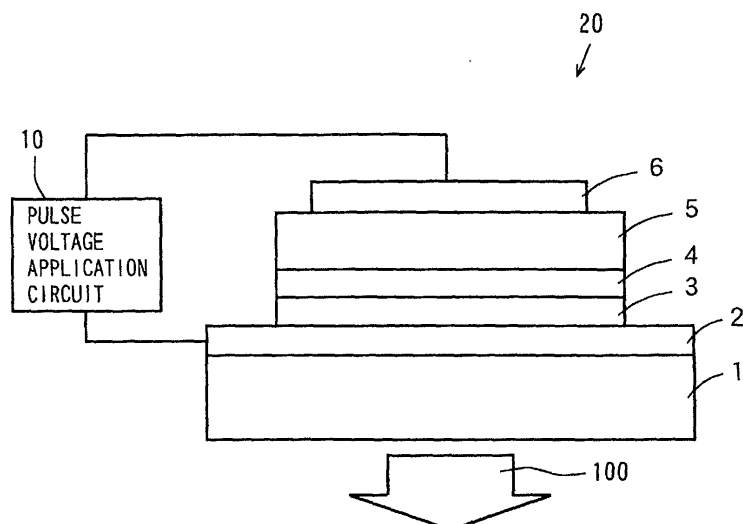
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(54) **Method of driving organic electroluminescence element, apparatus for driving organic electroluminescence element and display using the same**

(57) A pulse voltage application circuit applies a pulse voltage having a duty ratio of not more than 10 % to an organic EL element. In this case, driving conditions are set such that an average drive current flowing

through the organic EL element (an average injection current density) is not more than 3 mA/cm², and an average drive voltage applied to the organic EL element is not more than 4 volts.

FIG. 1





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EUROPEAN SEARCH REPORT

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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)
X	SAVVATE'EV V ET AL: "EFFICIENCY PEAKS IN THE TRANSIENT ELECTROLUMINESCENCE OF MULTILAYERORGANIC LIGHT-EMITTING DEVICES" APPLIED PHYSICS LETTERS, AMERICAN INSTITUTE OF PHYSICS. NEW YORK, US, vol. 76, no. 16, 17 April 2000 (2000-04-17), pages 2170-2172, XP000950423 ISSN: 0003-6951 * the whole document *	1-10	G09G3/32
X	KIJIMA Y ET AL: "A BLUE ORGANIC LIGHT EMITTING DIODE" September 1999 (1999-09), JAPANESE JOURNAL OF APPLIED PHYSICS, PUBLICATION OFFICE JAPANESE JOURNAL OF APPLIED PHYSICS. TOKYO, JP, PAGE(S) 5274-5277 , XP000947550 ISSN: 0021-4922 * the whole document *	1-10	
X	FUJII H ET AL: "DURABLE MOLECULAR ORGANIC ELECTROLUMINESCENT DEVICES AND THEIR FREQUENCY RESPONSES TO A NEW ACCURATE DRIVING METHOD" IEICE TRANSACTIONS ON ELECTRONICS, INSTITUTE OF ELECTRONICS INFORMATION AND COMM. ENG. TOKYO, JP, vol. E81-C, no. 7, July 1998 (1998-07), pages 1034-1039, XP000848082 ISSN: 0916-8524 * the whole document *	1-10	TECHNICAL FIELDS SEARCHED (Int.Cl.7) G09G H01L
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 4 January 2005	Examiner Harke, M
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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Application Number
EP 01 30 8001

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)
X	BRAUN D: "NANOSECOND TRANSIENT ELECTROLUMINESCENCE FROM POLYMER LIGHT-EMITTING DIODES" APPLIED PHYSICS LETTERS, AMERICAN INSTITUTE OF PHYSICS. NEW YORK, US, vol. 61, no. 26, 28 December 1992 (1992-12-28), pages 3092-3094, XP000334699 ISSN: 0003-6951 * the whole document * -----	1-10	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
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Place of search Munich		Date of completion of the search 4 January 2005	Examiner Harke, M
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专利名称(译)	驱动有机电致发光元件的方法，用于驱动有机电致发光元件的装置和使用该方法的显示器		
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当前申请(专利权)人(译)	SANYO ELECTRIC CO. , LTD.		
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其他公开文献	EP1197942A2		
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摘要(译)

脉冲电压施加电路将占空比不大于10%的脉冲电压施加到有机EL元件。在这种情况下，设定驱动条件使得流过有机EL元件的平均驱动电流（平均注入电流密度）不大于 $3\text{mA}/\text{cm}^2$ ，并且施加到有机EL元件的平均驱动电压不大于超过4伏特。

FIG. 1

