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an oscillator generates an oscillation signal having a frequency, which varies in a predetermined pattern or hops in a random pattern around a center frequency, and generates an oscillation signal having a preset fixed frequency whenever each frame begins.



EUROPEAN SEARCH REPORT

Application Number
EP 10 16 7062

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	US 2008/165167 A1 (HONG HYUN-SEOK [KR] ET AL) 10 July 2008 (2008-07-10) * paragraphs [0026] - [0034]; figures 1,2 *	1-10	INV. G09G3/36 H02M3/158
A	US 2009/135171 A1 (CHEN PO-TSUN [TW] ET AL) 28 May 2009 (2009-05-28) * abstract * * paragraphs [0059] - [0062]; figure 6 * * paragraph [0068]; figure 9 * * paragraphs [0030], [0043] - [0046]; figure 2 *	1-10	
A	US 2008/049464 A1 (CHEN CHI-JEN [TW]) 28 February 2008 (2008-02-28) * paragraphs [0018] - [0021]; figures 2,3 *	1-10	
A	EP 1 235 335 A2 (HITACHI LTD [JP]) 28 August 2002 (2002-08-28) * paragraphs [0033] - [0037]; figure 1 * * paragraphs [0055], [0056]; figure 8 *	1-10	TECHNICAL FIELDS SEARCHED (IPC)
A	EP 2 166 657 A1 (MURATA MANUFACTURING CO [JP]) 24 March 2010 (2010-03-24) * paragraph [0031]; figure 3 * * paragraphs [0046], [0047] * * paragraphs [0061] - [0063]; figure 11 *	1-10	G09G H02M
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 25 January 2013	Examiner van Wesenbeeck, R
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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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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专利名称(译)	用于液晶显示器的升压转换器		
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优先权	1020100042793 2010-05-07 KR		
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摘要(译)

为了使LDI的升压转换器能够通过使用可变频率产生面板驱动电压来减少电磁干扰，同时每当每帧开始时使用相同的频率实现稳定的升压操作，振荡器产生具有频率以预定模式变化或以中心频率周围的随机模式跳跃，并且每当每帧开始时产生具有预设固定频率的振荡信号。

FIG. 1

