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(54) **Electro magnetic display pixel driving system**

(57) New technical solution of the electromagnetic display pixel driving system solves the problem of switching the display pixel flap between two bistable »ON« and »OFF« positions. The magnetic circuit of the display pixel consists of a permanent magnet (2c) in the display pixel flap (2) and an electro-magnet (5+3u) with a magnetic core (3u). Said permanent magnet (2c) is

made using an injection molding process and is divided in two areas with antiparallel direction of magnetization, which is also perpendicular to the flap's surface (2a, 2b) and pivoting axis (2d). Electro magnet (5+3u) is placed under the flap (2) and has a preferably U shaped magnetic core (3u), which is oriented parallel to the pivoting axis (2d). This design minimizes the stray magnetic field and interactions between neighboring display pixels.

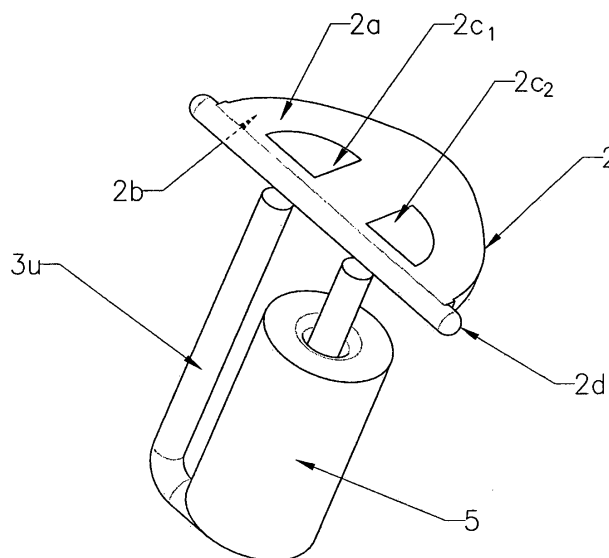


Fig. 1.

EP 1 591 983 A3



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# EUROPEAN SEARCH REPORT

Application Number  
EP 05 00 7967

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
D,A	US 6 603 458 B1 (FISCHER HELMUT ET AL) 5 August 2003 (2003-08-05) * abstract; claims; figures *	1-10	INV. G09F9/37
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			TECHNICAL FIELDS SEARCHED (IPC)
			G09F
The present search report has been drawn up for all claims			
Place of search <b>The Hague</b>		Date of completion of the search <b>6 July 2006</b>	Examiner <b>Gallo, G</b>
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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  .....  &amp; : member of the same patent family, corresponding document</p>			

4  
EPO FORM 1503 03/02 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 05 00 7967

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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06-07-2006

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