

Title (en)  
ELECTROMAGNETIC DISPLAY DEVICE

Title (de)  
ELEKTROMAGNETISCHE ANZEIGEVORRICHTUNG

Title (fr)  
DISPOSITIF D'AFFICHAGE ELECTROMAGNETIQUE

Publication  
**EP 1171860 A1 20020116 (DE)**

Application  
**EP 99927654 A 19990409**

Priority  

- DE 9901102 W 19990409
- DE 19802218 A 19980122
- DE 29824339 U 19980122

Abstract (en)  
[origin: WO0062274A1] The invention relates to an electromagnetic display device, comprising a panel which consists of a number of substantially square pixels which are divided into two parts. Each pixel is provided with a rotatably-mounted, bistable tilting flap which is asymmetrical in relation to its rotational axis. Said tilting flap covers one of the two portions of the panel surface in the pixel zone when the flap lies in each of its two stable positions. The side of the tilting flap facing the front side of the panel and the portion of the panel in the pixel zone which is covered by the tilting flap in this position has a first colour and the other side of the tilting flap and the other portion of the panel in the pixel zone has a second colour. A permanent magnet is fitted to the tilting flap in close proximity to the rotational axis. The tilting flap is displaced from a first position into a second position by an electromagnet which is located on the reverse side of the panel and is allocated to the pixels and which has a coil body and a core. The display device panel is connected to a base plate which faces the reverse side of said panel and has at least one opening in one section of each pixel. A pin which is located on the base plate is allocated to each opening and is directed towards said opening. The pin contains a recess on the side facing the panel, in which a light-emitting diode is inserted.

IPC 1-7  
**G09F 9/37**

IPC 8 full level  
**G09F 9/37** (2006.01)

CPC (source: EP)  
**G09F 9/375** (2013.01)

Citation (search report)  
See references of WO 0062274A1

Cited by  
US11841586B1

Designated contracting state (EPC)  
AT DE ES GB IT

DOCDB simple family (publication)  
**WO 0062274 A1 20001019**; AT E277399 T1 20041015; CA 2352821 A1 20001019; CA 2352821 C 20070626; DE 29824339 U1 20001221; DE 59910607 D1 20041028; EP 1171860 A1 20020116; EP 1171860 B1 20040922; ES 2230859 T3 20050501

DOCDB simple family (application)  
**DE 9901102 W 19990409**; AT 99927654 T 19990409; CA 2352821 A 19990409; DE 29824339 U 19980122; DE 59910607 T 19990409; EP 99927654 A 19990409; ES 99927654 T 19990409