

Title (en)
Electromagnetic display panel

Title (de)
Elektromagnetische Anzeigevorrichtung

Title (fr)
Dispositif d'affichage électromagnétique

Publication
EP 1591985 A3 20060816 (EN)

Application
EP 05007969 A 20050412

Priority
SI 200400129 A 20040428

Abstract (en)
[origin: EP1591985A2] A novel construction, of an electromagnetic display, which allows for the significant reduction of the fabrication costs is described. The construction is adapted to a batch processing of the electromagnetic display panel pixels (P), which can optionally use novel electromagnetic driving as well as illumination concept. According to the described construction concept the display pixels (P) are integrated into smaller functional groups - segments, within which all static parts of the display pixels are joined in a monolithic block (1), which can be mass-produced in an automatic process. Due to the monolithic design the number of constituent parts is reduced to minimum and the mechanical tolerances can be kept tighter. This in turn allows the other operations like solenoid (5) winding, pixel flaps (2) insertion, contacting/mounting pins (4a + 4b) injection, etc to be performed simultaneously for all pixel elements joint in the said basic display segment. The described display panel design also applies a novel concept of display pixel illumination in low ambient light conditions based on the use of UV light luminescent paints replacing the discrete pixel illumination by light sources associated with each display pixel (for example: LED,...) as well as novel electromagnetic display pixel driving, reducing the crosstalk between neighboring display pixels based on the use of plasto-magnets built-in in the display flaps during the injection molding production process.

IPC 8 full level
G09F 13/20 (2006.01); **G09F 3/04** (2006.01); **G09F 9/37** (2006.01)

CPC (source: EP)
G09F 9/375 (2013.01); **G09F 13/20** (2013.01)

Citation (search report)
• [DA] US 5771616 A 19980630 - TIJANIC VESO S [CA]
• [DA] US 6603458 B1 20030805 - FISCHER HELMUT [DE], et al

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

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DOCDB simple family (application)
EP 05007969 A 20050412; CN 200510007069 A 20050207; RU 2004134001 A 20041122; SI 200400129 A 20040428