

Title (en)
ELECTROPHORETIC DISPLAY HAVING REDUCED WRITING TIME

Title (de)
ELEKTROPHONETISCHE ANZEIGETAFEL MIT REDUZIERTER DATENEINSCHREIBZEIT

Title (fr)
AFFICHAGE ELECTROPHORETIQUE A TEMPS D'ECRITURE REDUIT

Publication
EP 0715751 A4 19970409 (EN)

Application
EP 94926505 A 19940815

Priority

- US 9409217 W 19940815
- US 11211693 A 19930826

Abstract (en)
[origin: WO9506307A1] An electrophoretic display (10) is provided which enables an image to be displayed by selectively energizing intersecting grid (16) and cathode (14) lines each indicative of a pixel and varying the bias between the lines to cause suspended pigment particles to migrate to an anode (20) and away from the energized pixels. Selected intersections of grid (16) and cathode (14) lines indicative of pixels are energized with a set of voltages during a fixed time interval, thereby causing an image to be displayed thereon. The time interval selected is less than the time required to completely remove the pigment particles from the pixels and the image is sequentially enhanced by rewriting at least some of the pixels with the set of voltages at least once. This permits a readable image to be produced much more rapidly and also provides incrementally darker pixels in the image as additional pigment particles are moved from selected intersections during subsequent energizing intervals.

IPC 1-7
G09G 3/00

IPC 8 full level
G02F 1/167 (2006.01); **G09G 3/34** (2006.01)

CPC (source: EP)
G09G 3/344 (2013.01); **G09G 2320/0252** (2013.01)

Citation (search report)

- No further relevant documents disclosed
- See references of WO 9506307A1

Designated contracting state (EPC)
BE DE FR GB IT NL

DOCDB simple family (publication)
WO 9506307 A1 19950302; CA 2170263 A1 19950302; EP 0715751 A1 19960612; EP 0715751 A4 19970409; JP H09504618 A 19970506

DOCDB simple family (application)
US 9409217 W 19940815; CA 2170263 A 19940815; EP 94926505 A 19940815; JP 50763995 A 19940815