

Title (en)

ELECTROPHORETIC DISPLAYS CONTAINING MODIFIED PARTICLES

Title (de)

ELEKTROPHORETISCHE ANZEIGE, WELCHE MODIFIZIERTE TEILCHEN ENTHÄLT

Title (fr)

AFFICHAGES ELECTROPHORETIQUES CONTENANT DES PARTICULES MODIFIEES

Publication

**EP 1356346 A2 20031029 (EN)**

Application

**EP 01968713 A 20010907**

Priority

- US 0128189 W 20010907
- US 65803000 A 20000908

Abstract (en)

[origin: WO0221201A2] An electrophoretic display containing modified particles is described. As well as non-emissive display systems. In the electrophoretic display, an arrangement of microscopic containers is used, wherein each container contains a dielectric fluid and a suspension of particles having attached at least one organic group, wherein the organic group includes at least one ionic group, ionizable group, or both, and wherein fluid and the particles contrast visually. The electrophoretic display also includes first and second electrodes wherein the arrangement is located between these electrodes and wherein one of the electrodes is substantially visually transparent. The electrophoretic display further includes means for creating a potential difference between the two electrodes so that the potential difference causes the particles to migrate toward one of the electrodes.

IPC 1-7

**G02F 1/167**

IPC 8 full level

**G02F 1/167** (2019.01)

CPC (source: EP US)

**G02F 1/167** (2013.01 - EP US); **G02F 2001/1678** (2013.01 - EP); **G02F 2202/02** (2013.01 - EP)

Citation (search report)

See references of WO 0221201A2

Citation (examination)

US 5914806 A 19990622 - GORDON II JOSEPH GROVER [US], et al

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**WO 0221201 A2 20020314; WO 0221201 A3 20030807; WO 0221201 A9 20031113**; AU 8894301 A 20020322; CA 2421883 A1 20020314; EP 1356346 A2 20031029; JP 2004527776 A 20040909

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