

Patents

CL=("AMOLED") OR CL=("active matrix organic light emitting diode") OR CL=("act

CL=("AMOLED") OR CL=("active matrix organic light emitting diode") OR CL=("active matrix OLED"); Assignee: Samsung; Country: US;

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Touch screen panel active matrix organic light emitting diode display device

EP US CN KR ES · [US8830195B2](#) · Sang Yong Eom · Samsung Electronics Co., Ltd.

Priority 2011-07-13 · Filed 2012-03-19 · Granted 2014-09-09 · Published 2014-09-09

1. A touch screen panel **Active Matrix Organic Light Emitting Diode (AMOLED)** display device, the device comprising: a flexible **AMOLED** disposed on the bottom of a window; a Chip-On-Film (COF) film connected to the flexible **AMOLED** and coupled directly to a flexible **AMOLED** driver Integrated Circuit (IC) ...

Wearable electronic device

WO EP US CN KR · [US20190012962A1](#) · Young-Hee HA · Samsung Electronics Co., Ltd.

Priority 2014-09-01 · Filed 2018-09-10 · Published 2019-01-10

illustrates an operation flow for improving motion blur of an HMT module in an **Active-Matrix Organic Light-Emitting Diode (AMOLED)** screen according to one example embodiment of the present disclosure; FIG. 27 is a schematic diagram illustrating screen brightness dependent on setting of an **AMOLED** ...

Electronic device including light detection device and operation method thereof

EP US CN KR · [US10707351B2](#) · Seunggoo KANG · Samsung Electronics Co., Ltd.

Priority 2017-01-26 · Filed 2019-06-28 · Granted 2020-07-07 · Published 2020-07-07

20. The electronic device of claim 15, wherein the display is an **active matrix organic light emitting diode (AMOLED)** display. 21. The electronic device of claim 15, wherein the instructions further cause the processor to display one or more pixels included in the display in a black color for ...

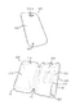
Cover device and electronic device including the same

US KR · [US9710022B2](#) · Min-Hyook Lee · Samsung Electronics Co., Ltd.

Priority 2014-08-22 · Filed 2015-08-24 · Granted 2017-07-18 · Published 2017-07-18

15. The electronic device of claim 9, wherein the first display unit or the second display unit comprises at least one of a Liquid Crystal Display (LCD), a Light Emitting Display (LED), an Organic Light Emitting Diode Display (OLED), and an Active Mode Organic Light Emitting Diode Display (**AMOLED**).

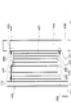
Cover, an electronic device using the same and operating method thereof

US KR · [US9628606B2](#) · Hun-Cheol OH · Samsung Electronics Co., Ltd.

Priority 2013-01-24 · Filed 2014-01-24 · Granted 2017-04-18 · Published 2017-04-18

26. The electronic cover device of claim 21, wherein the at least one screen of the first cover comprises one of an Electro Wetting Display (EWD), an E-paper, a Plasma Display Panel (PDP), a Liquid Crystal Display (LCD), an Organic LED (OLED), and an **Active Matrix OLED (AMOLED)**. 27. The electronic ...

Near field communication antenna device of mobile terminal

WO US KR · [US8977196B2](#) · Kyu Sik CHO · Samsung Electronics Co., Ltd.

Priority 2011-09-28 · Filed 2012-07-31 · Granted 2015-03-10 · Published 2015-03-10

wherein the multi-layer FPCB is disposed so as to be adjacent to an edge of the window. 4. The device of claim 1, wherein the display comprises an **Active Matrix Organic Light Emitting Diode (AMOLED)** display. 5. The device of claim 4, wherein the display comprises a touch screen sensor pattern ...

Method for acquiring biometric information and electronic device supporting the ...

WO EP US CN KR · [US20180300526A1](#) · Joung Min CHO · Samsung Electronics Co., Ltd.

Priority 2017-04-18 · Filed 2018-04-18 · Published 2018-10-18

... prespecified value. 7. The electronic device of claim 1, wherein the processor is configured to: control minimization of an **AMOLED** off ratio (AOR) for the display while the brightness of the first pixel group is increased to the first brightness level. 8. An electronic device comprising: a display; ...

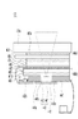
Antenna device and electronic device having the same

WO US CN KR · [US9652073B2](#) · Sang-Ho LIM · Samsung Electronics Co., Ltd.

Priority 2014-10-29 · Filed 2015-10-29 · Granted 2017-05-16 · Published 2017-05-16

wherein the plurality of display layers comprises a touch panel and further comprises, under the touch panel, a display panel comprising any one of a Liquid Crystal Display (LCD) panel, a Light Emitting Diode (LED) panel, an Organic LED (OLED) panel, and an **Active Matrix Organic Light Emitting** ...

Electronic device having display and sensor and method for operating the same



EP US CN KR • [US10997908B2](#) • Eun-Taek JANG • Samsung Electronics Co., Ltd.

Priority 2016-08-30 • Filed 2020-05-18 • Granted 2021-05-04 • Published 2021-05-04

... based at least on the identified illuminance of outside of the housing. 2. The electronic device of claim 1, wherein the display comprises an **active matrix organic light emitting diode (AMOLED)** display. 3. The electronic device of claim 1, wherein the sensor comprises an illuminance sensor.

Electronic device and operating method thereof



WO EP US KR • [US9971712B2](#) • Hun Cheol OH • Samsung Electronics Co., Ltd.

Priority 2013-03-14 • Filed 2014-03-14 • Granted 2018-05-15 • Published 2018-05-15

A method for operating an electronic device is provided. In the method, an electronic cover is connected. Configuration information of the electronic cover is obtained. A User Interface (UI) corresponding to the configuration information is set. Various other embodiments are also possible.

Display module including antenna



EP US KR • [US10686246B2](#) • Soon Park • Samsung Electronics Co., Ltd.

Priority 2013-11-01 • Filed 2014-06-13 • Granted 2020-06-16 • Published 2020-06-16

7. The display module of claim 1, wherein the display panel includes at least one of a thin film transistor liquid crystal display (TFT LCD) panel, a passive-matrix organic light-emitting diode (PM-OLED) panel, and an **active-matrix organic light-emitting diode (AM-OLED)** panel. 8. The display module ...

Display module and method of manufacturing the same



WO EP US CN JP KR AU CA • [US10573955B2](#) • Chul BAIK • Samsung Electronics Co., Ltd.

Priority 2015-05-22 • Filed 2015-12-22 • Granted 2020-02-25 • Published 2020-02-25

... . The display module according to claim 1, wherein the display panel includes at least one of a Liquid Crystal Display (LCD), a reflective display, an E-ink display, a Passive Matrix Organic Light Emitting Diode (PM OLED) display, and an **Active Matrix Organic Light Emitting Diode (AM OLED)** display.

Thermoelectric cooling packages and thermal management methods thereof



US CN JP KR • [US9228763B2](#) • Jae Choon Kim • Samsung Electronics Co., Ltd.

Priority 2011-12-01 • Filed 2012-12-03 • Granted 2016-01-05 • Published 2016-01-05

, wherein the display panel is one from among a liquid crystal display panel and an organic light-emitting diode (OLED) display. 9. The handheld mobile device of claim 8, wherein the OLED display is an **active-matrix OLED** display. 10. The handheld mobile device of claim 5, wherein the thermoelectric ...

Methods and systems for sub-pixel rendering with gamma adjustment



WO EP US CN JP KR AU • [US8830275B2](#) • Michael Francis Higgins • Samsung Display Co., Ltd.

Priority 2001-05-09 • Filed 2007-05-17 • Granted 2014-09-09 • Published 2014-09-09

wherein said prespecified nonlinear display unit utilizes one of a group of display technologies, said group of technologies comprising passively addressed Liquid Crystal Display (LCD), ElectroLuminescent (EL) Display, Plasma Display, passively addressed Inorganic **Light Emitting Diode, Organic** ...

Color flat panel display sub-pixel rendering and driver configuration for sub- ...

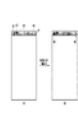


US • [US7755652B2](#) • Thomas Lloyd Credelle • Samsung Electronics Co., Ltd.

Priority 2002-01-07 • Filed 2006-08-30 • Granted 2010-07-13 • Published 2010-07-13

, wherein said display device utilizes one of a group of display technologies, said group of technologies comprising passively addressed Liquid Crystal Display (LCD), ElectroLuminescent (EL) Display, Plasma Display, passively addressed Inorganic **Light Emitting Diode, Organic Light Emitting Diode** ...

Method and apparatus for reducing image sticking event on graphical user ...

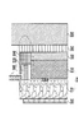


EP US CN JP KR AU BR CA RU ZA • [US9799264B2](#) • Sang Yong Eom • Samsung Electronics Co., Ltd.

Priority 2011-03-18 • Filed 2012-03-02 • Granted 2017-10-24 • Published 2017-10-24

A method and an apparatus for providing a Graphical User Interface (GUI) on an **Active Matrix Organic Light-Emitting Diode (AMOLED)** display of a device for reducing an image sticking effect are provided. The method includes displaying at least one item at an initial position on a screen of the ...

On-cell TSP active matrix organic light emitting diode structure



EP US CN KR • [US9466646B2](#) • Dong Sub Kim • Samsung Electronics Co., Ltd.

Priority 2010-08-23 • Filed 2011-08-19 • Granted 2016-10-11 • Published 2016-10-11

10. The structure of claim 1, further comprising a sponge disposed at a lower surface of the **AMOLED**. 11. An on-cell Touch Screen Panel (TSP) **Active Matrix Organic Light Emitting Diode (AMOLED)** structure, the structure comprising: a window comprising glass or acryl; an **AMOLED** including a Low ...

Method and device for controlling power of active matrix organic light-emitting ...

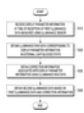


EP US CN JP KR • [US8730271B2](#) • Jong Hwan Kim • Samsung Electronics Co., Ltd.

Priority 2008-12-30 • Filed 2009-12-15 • Granted 2014-05-20 • Published 2014-05-20

A method and device for controlling power of an **active matrix organic light-emitting diode** are provided. The method for controlling power of an **active matrix organic light-emitting diode** includes: calculating a frame data rate, which is a ratio of a light emitting pixel quantity representing a ...

Electronic device and illuminance sensing method based on display information ...

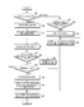


WO EP US CN KR • [US11244995B2](#) • Jeongho Cho • Samsung Electronics Co., Ltd.

Priority 2018-11-13 • Filed 2019-11-12 • Granted 2022-02-08 • Published 2022-02-08

... display based on the second illuminance value, and wherein the parameter information comprises at least one of color on pixel ratio (COPR) information about the image output through the touchscreen display or **active matrix organic light emitting diode (AMOLED)** off ratio (AOR) information.

Apparatus and method for enhancing readability of a character

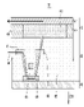


EP US CN KR • [US8947468B2](#) • Jong-man Kim • Samsung Electronics Co., Ltd.

Priority 2010-03-03 • Filed 2011-03-03 • Granted 2015-02-03 • Published 2015-02-03

In consideration of the characteristics described above, in accordance with an embodiment of the present invention a method is provided for reducing current consumption and simultaneously enhancing the visibility in displaying an image on a display, such as an **AMOLED**, an LCD, etc., of a mobile ...

Electronic device comprising display



WO US KR • [US20220223661A1](#) • Bong Jae Rhee • Samsung Electronics Co., Ltd.

Priority 2017-10-30 • Filed 2018-10-26 • Published 2022-07-14

, wherein the transparent layer includes a material that reflects, absorbs, or blocks light in an ultraviolet band.

11. The electronic device of claim 1, wherein the display panel is an **active matrix organic light-emitting diode (AMOLED)** panel. 12. The electronic device of claim 1, wherein the ...

Apparatus and method for providing memo function



WO EP US CN KR • [US11579714B2](#) • Heung Kyo SEO • Samsung Electronics Co., Ltd.

Priority 2015-07-10 • Filed 2021-10-08 • Granted 2023-02-14 • Published 2023-02-14

9. The electronic device of claim 1, wherein the display is implemented by an **active matrix organic light-emitting diode (AMOLED)**. 10. A method of providing a memo function of an electronic device, the method comprising: while a display of the electronic device is in an OFF-state, sensing, via a ...

3D glasses and method for controlling the same

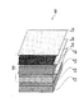


EP US KR • [US10027951B2](#) • Hee-beom Kang • Samsung Electronics Co., Ltd.

Priority 2010-09-30 • Filed 2011-09-25 • Granted 2018-07-17 • Published 2018-07-17

2. The 3D glasses as claimed in claim 1, wherein the transparent display unit is a transparent **active-matrix organic light-emitting diode (AMOLED)**. 3. The 3D glasses as claimed in claim 1, wherein the transmission/reception unit is a wireless transmission/reception device using one of Bluetooth and ...

Active matrix organic light-emitting diode display and method of controlling ...

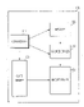


US CN KR • [US20120033144A1](#) • Jung Hyun Kim • Samsung Electronics Co. Ltd.

Priority 2010-08-06 • Filed 2011-07-19 • Published 2012-02-09

1. An **Active Matrix Organic Light Emitting Diode (AMOLED)** display comprising an input unit and a controller, the display comprising: a display unit for displaying a low power mode screen, by enabling the controller to turn off an **AMOLED** and to turn on a cholesteric Liquid Crystal Display (LCD) in a ...

Method and apparatus for digitally driving an AMOLED



US CN KR DE • [US20080191977A1](#) • Yong-Yun Park • Samsung Electronics Co., Ltd.

Priority 2007-02-12 • Filed 2007-12-12 • Published 2008-08-14

1. A method for digitally driving an **AMOLED** to display a plurality of different areas of the **AMOLED** including a first area displaying a first image and a second area displaying a second image, the method comprising: commencing display of at least one of a plurality of lines of the **AMOLED** to cause ...

Apparatus and method for motion detection in portable terminal

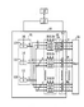


EP US CN KR • [US9141206B2](#) • Hyun-Su Hong • Samsung Electronics Co., Ltd.

Priority 2009-06-12 • Filed 2010-06-10 • Granted 2015-09-22 • Published 2015-09-22

5. The portable terminal of claim 4, wherein the display unit is at least one of: a color Liquid Crystal Display (LCD); an Active Mode Organic Light Emitting Diode (**AMOLED**); and a touch input device. 6. A method for providing motion detection in a portable terminal, the method comprising: storing a ...

Circuits, displays and apparatus for providing opposing offsets in amplifier ...



US CN KR TW • [US20060290619A1](#) • Jihang Lee • Samsung Electronics Co., Ltd.

Priority 2005-06-22 • Filed 2006-02-27 • Published 2006-12-28

34. An **Active Matrix Organic Light Emitting Diode (AMOLED)** driver circuit comprising: a gray voltage generator including a gamma amplifier configured to operate in non-inverting offset mode to provide a gamma amplifier output including a positive offset voltage responsive to a first state of a ...

Electronic device with illuminance sensor mounted at back side of display and ...

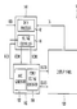


WO EP US KR • [US11562670B2](#) • Jeongho Cho • Samsung Electronics Co., Ltd.

Priority 2019-01-29 • Filed 2019-12-10 • Granted 2023-01-24 • Published 2023-01-24

in response to a change in brightness of a screen displayed on the display, determine an AOR (**AMOLED** Off Ratio), wherein the AOR is a ratio of OFF time period of the plurality of AMOLEDs, as divided by total time period aggregating an ON time period of the plurality of AMOLEDs plus the OFF time ...

Display device and driving method of the same



US KR • [US11094259B2](#) • Hun-Bae Kim • Samsung Display Co., Ltd.

Priority 2018-05-23 • Filed 2019-04-18 • Granted 2021-08-17 • Published 2021-08-17

16. The driving method of claim 14, wherein generating the first voltage control signal further comprises: generating a third control signal corresponding to an **AMOLED** off ratio (AOR) of the image data. 17. The driving method of claim 16, wherein the first voltage control signal is generated based ...

Electronic apparatus, key inputting method and computer-readable medium



EP US KR • [US20130321277A1](#) • Kwang-soo Ha • Samsung Electronics Co., Ltd.

Priority 2012-05-29 • Filed 2012-12-27 • Published 2013-12-05

21. The method of claim 15, wherein the image display element is one of E-ink, LCD, and **AMOLED**. 22. A non-transitory computer-readable medium to contain computer-readable codes as a program to execute a key inputting method in an electronic apparatus including a key pad unit which is disposed on a ...

Electronic device



WO EP US CN KR • [US20140168870A1](#) • Chong-Kun CHO • Samsung Electronics Co., Ltd.

Priority 2012-12-14 • Filed 2013-12-06 • Published 2014-06-19

20. The electronic device of claim 19, wherein the display module is an On Cell Touch (OCT) type **Active Matrix Organic Light Emitting Diode (AMOLED)** (OCTA). 21. The electronic device of claim 20, further comprising a sealing member disposed between the upper plate and the lower plate in order to ...

Display device and method of manufacturing the same



US CN KR • [US20150124179A1](#) • Jae-Hun KO • Samsung Electronics Co., Ltd.

Priority 2013-11-04 • Filed 2014-10-08 • Published 2015-05-07

15. The method of claim 14, wherein the touch screen panel is any one of a film electrode type (GFF) Touch Screen Panel (TSP), a hybrid cover glass integrated (G1F) TSP, a cover glass integrated (G2) 14 a TSP, and an On-Cell Touch **Active Matrix Organic Light Emitting Diode (AMOLED)** (OCTA) TSP. 16.

Touch panel having improved visibility and method of manufacturing the same



WO EP US CN • [US9949397B2](#) • Myung-Gon Kim • Samsung Electronics Co., Ltd.

Priority 2012-02-23 • Filed 2013-02-08 • Granted 2018-04-17 • Published 2018-04-17

25. The touch panel of claim 14, wherein the display part comprises one of a Liquid Crystal Display (LCD), a Light Emitting Diode (LED), or an **Active Matrix Organic Light Emitting Diode (AMOLED)**. 26. The touch panel of claim 14, wherein a top surface of the first bracket is attached to the first UV ...

Electronic device and operating method thereof



US KR • [US20150186093A1](#) • Jung-hyun Kim • Samsung Electronics Co., Ltd.

Priority 2013-12-24 • Filed 2014-12-24 • Published 2015-07-02

31. The electronic device of claim 20, wherein the first display and the second display comprises one of a liquid crystal display (LCD), an **active matrix organic light emitting diode (AMOLED)**, and electrophoretic Ink (E-ink). 32. The electronic device of claim 20, wherein both the electronic device ...

Display device



EP US KR • [US20140225871A1](#) • Min-Uk Kim • Samsung Electronics Co., Ltd.

Priority 2013-02-08 • Filed 2014-02-10 • Published 2014-08-14

, wherein the display layer comprises an Organic Light Emitting Diode (OLED). 14. The display device of claim 1, wherein the display layer comprises an **Active Matrix Organic Light Emitting Diode (AMOLED)**. 15. The display device of claim 1, wherein the retardation and polarization layer comprises a λ ...

Memory module and memory system



US • [US2016027595A1](#) • Won-Hyung SONG • Samsung Electronics Co., Ltd.

Priority 2012-11-15 • Filed 2016-05-31 • Published 2016-09-22

... , a gyroscope sensor, and a vibration sensor. 25. The computing system of claim 23, wherein the output device is one of an LCD, an Organic Light Emitting Diode (OLED) display device, an **Active Matrix OLED (AMOLED)** display device, an LED, a speaker, and a motor. 26. The computing system of claim 22, ...

Active matrix organic light emitting diode display having deterioration ...



US JP KR • [US20120044271A1](#) • Yeun Joong Lee • Samsung Electro-Mechanics Co., Ltd.

Priority 2010-08-19 • Filed 2011-05-25 • Published 2012-02-23

11. The **active matrix organic light emitting diode** display of claim 10, wherein the ADC detects the deterioration voltage having the deterioration information of the organic light emitting diode in an input node of the pixel unit, into which the driving signal of the data driving unit is inputted, ...

On-cell tsp active matrix organic light emitting diode display



US KR • [US20120062485A1](#) • Soo Hyung Kim • Samsung Electronics Co., Ltd.

Priority 2010-09-15 • Filed 2011-05-18 • Published 2012-03-15

2. The On-Cell TSP **active matrix OLED** display of claim 1, wherein the conductive layer is formed in a black mark area of the window. 3. The On-Cell TSP **active matrix OLED** display of claim 1, wherein the other end of the ground connection portion is connected to a ground connection line of an **active** ...

Method and apparatus for displaying an image



US JP KR TW • US20070120868A1 • Jong-Hak Baek • Jong-Hak Baek

Priority 2005-11-28 • Filed 2006-11-27 • Published 2007-05-31

In developing an **active matrix OLED** device, characteristics of a thin-film transistor (TFT) that is included in a unit cell of a pixel array may be troubled with various problems. For example, in the **active matrix OLED** device including a back panel of amorphous silicon, a threshold voltage of the ...

Apparatus and method for improving character input function in mobile terminal

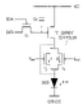


US KR • US8633895B2 • Yoon-Suk Choi • Samsung Electronics Co., Ltd.

Priority 2011-03-22 • Filed 2012-03-01 • Granted 2014-01-21 • Published 2014-01-21

18. The apparatus of claim 16, wherein the display unit comprises one of a Liquid Crystal Display (LCD) and an **Active-Matrix Organic Light-Emitting Diode (AMOLED)**. 19. The apparatus of claim 16, wherein the controller divides an output region of the display unit into a first region on which the ...

Active matrix organic light emitting diode display and method of driving the ...



US KR • US20090309868A1 • Jisim Jung • Samsung Electronics Co., Ltd.

Priority 2008-06-11 • Filed 2009-05-01 • Published 2009-12-17

9. The **AMOLED** display of claim 7, further comprising: a storage capacitor storing the image signals; and a switching transistor storing the image signals in the storage capacitor. 10. The **AMOLED** display of claim 9, wherein the switching transistor, the driving transistor, and the first and second ...

Apparatus and method for controlling power



US KR • US20150130867A1 • Dongyoul PARK • Samsung Electronics Co., Ltd.

Priority 2013-11-06 • Filed 2014-11-06 • Published 2015-05-14

140 can control voltages applied to each pixel of the display unit based on the determined voltage. According to an embodiment of the present disclosure, the power controller 140 can control an ELVSS voltage (the second voltage) applied to each pixel of **AMOLED** display. The power controller 140 can ...

Flat panel display device

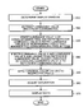


US CN JP KR • US20060244374A1 • Eun-ah Kim • Kim Eun-Ah

Priority 2005-04-28 • Filed 2006-04-21 • Published 2006-11-02

FIG. 4, in one embodiment, the first OLED display element and the second OLED display element may be driven as an **active matrix OLED** display. The first OLED in the first OLED display element may be a top emission OLED, and the second OLED in the second OLED display element may be a dual emission ...

Data display method and device



EP US CN KR ES PL • US9330591B2 • Young-min Jeong • Samsung Electronics Co., Ltd

Priority 2009-12-22 • Filed 2010-12-22 • Granted 2016-05-03 • Published 2016-05-03

A low power display and a method for display in a display device having an Active Matrix Organic Light Emitting Diodes **AMOLED** panel are provided. A display window that includes content to be displayed on the **AMOLED** panel is determined. Luminance values of pixels constituting the display window are ...

Device and method of processing image for power consumption reduction

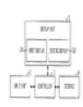


US KR • US8194092B2 • Young Ran HAN • Samsung Electronics Co., Ltd.

Priority 2008-10-10 • Filed 2009-03-20 • Granted 2012-06-05 • Published 2012-06-05

... their original color. 12. The method of claim 1, wherein the image processing method for reducing the power consumption is applicable for an **active matrix organic light emitting diode (AM OLED)**. 13. A computer-readable recording medium storing a program for implementing the method of claim 1.

Method and apparatus for controlling displays in mobile terminal



EP US KR • US20130141310A1 • Sang-Woo JOO • Samsung Electronics Co., Ltd

Priority 2011-12-05 • Filed 2012-12-05 • Published 2013-06-06

12. The method of claim 1, wherein the first display comprises one of an EWD, an E-paper, a Plasma Display Panel (PDP), a Liquid Crystal Display (LCD), an Organic Light-Emitting Diode (OLED), and an **Active Matrix Organic Light-Emitting Diode (AMOLED)**. 13. An apparatus for controlling displays, the ...

Electronic apparatus



US KR • US9535644B2 • Seung-pok LEE • Samsung Electronics Co., Ltd.

Priority 2014-01-03 • Filed 2015-01-05 • Granted 2017-01-03 • Published 2017-01-03

3. The apparatus according to claim 2, wherein the display is at least one of a Liquid Crystal Display (LCD) and an **Active Matrix Organic Light-Emitting Diode (AMOLED)**. 4. The apparatus according to claim 1, wherein the communication interface comprises a Bluetooth communicator configured to ...

Active matrix organic light emitting diode display having reset function



US JP KR • US20120056866A1 • Yeun Joong Lee • Samsung Electro-Mechanics Co., Ltd.

Priority 2010-09-08 • Filed 2011-05-26 • Published 2012-03-08

3. The **AMOLED** display of claim 2, wherein the pixel unit is configured such that: the second, third, and fourth MOS transistors are turned on and the first and fifth MOS transistors are turned off in the tracking period; the first and second MOS transistors are turned on and the third, fourth, and ...

Apparatus and method for driving self-emission display panel



EP US CN KR • [US20080144112A1](#) • Gwon-jin Moon • **Samsung Electronics Co., Ltd**

Priority 2006-10-18 • Filed 2007-04-18 • Published 2008-06-19

10 . The apparatus of claim 1 , wherein the self-emission display panel is one of an **active-matrix organic light emitting diode (AMOLED)**, a plasma display panel (PDP), a surface-conduction electron-emitter display (SED), and a field emission display (FED). 11 . A method of driving a self-emission ...

Display device having security function

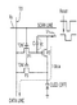


US KR • [US20120188216A1](#) • BonSeog GU • **Gu Bonseog**

Priority 2011-01-20 • Filed 2012-01-05 • Published 2012-07-26

there may be, e.g., one of a Liquid Crystal Display (LCD) panel, an Organic Light Emitting Diode (OLED) panel, an **Active Matrix Organic Light Emitting Diode (AMOLED)** panel, a Field Emitter Display (FED) panel, and a Plasma Display Panel (PDP). In an exemplary embodiment, the display panel coupled ...

Active matrix organic light emitting diode display

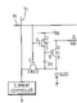


US KR • [US7928934B2](#) • Michael G. Kane • **Samsung Electronics Co., Ltd.**

Priority 2007-04-20 • Filed 2007-04-20 • Granted 2011-04-19 • Published 2011-04-19

4. The **AMOLED** display of claim 1 , wherein the current controller determines the current flowing through the driving transistor regardless of a threshold voltage of the driving transistor to store a voltage corresponding to the current in the memory capacitor. 5. The **AMOLED** display of claim 1 ,

Unit pixels and active matrix organic light emitting diode displays including ...



US • [US20090201278A1](#) • Michael G. Kane • **Samsung Electronics Co., Ltd.**

Priority 2008-02-13 • Filed 2008-10-28 • Published 2009-08-13

8 . The **AMOLED** display of claim 7 , wherein the driving, switching, and programming transistors are N-channel transistors. 9 . The **AMOLED** display of claim 7 , wherein the driving, switching, and programming transistors are amorphous silicon transistors. 10 . The **AMOLED** display of claim 9 , wherein the ...

Active matrix organic light emitting diode display



US KR • [US20090201235A1](#) • Michael G. Kane • **Samsung Electronics Co., Ltd.**

Priority 2008-02-13 • Filed 2008-02-13 • Published 2009-08-13

1 . An organic light emitting diode (**AMOLED**) display comprising: an organic light emitting diode; a driving transistor comprising a source connected to the organic light emitting diode and a drain supplied with a driving voltage for the operation of the organic light emitting diode; a memory ...

Apparatus and method for adjusting a battery voltage level output in a portable ...



US KR • [US20130141415A1](#) • Jin-Kyu Kim • **Samsung Electronics Co., Ltd.**

Priority 2011-10-31 • Filed 2012-10-31 • Published 2013-06-06

The method of claim 7 , wherein the adjusting the battery voltage value comprises: calculating a voltage value consumed by the **AMOLED** based on the color rate of the image; and determining the adjusted battery voltage value by adding the calculated voltage value and the current battery voltage value.

Output apparatus and method for portable terminal



US KR • [US20120131511A1](#) • Bum-Sun Park • **Samsung Electronics Co., Ltd.**

Priority 2010-11-22 • Filed 2011-11-22 • Published 2012-05-24

8 . The apparatus of claim 1 , wherein the display unit comprises one of: a color Liquid Crystal Display (LCD), Active Mode Organic Light Emitting Diode (**AMOLED**). 9 . An output method for a portable terminal, the method comprising: determining sub-menu items included in a selected menu when a user ...

Method and apparatus for reducing power consumption in electronic device

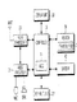


US KR • [US20110216102A1](#) • Ji-Young Kim • **Samsung Electronics Co. Ltd.**

Priority 2010-03-02 • Filed 2011-02-25 • Published 2011-09-08

1 . A method for reducing power consumption in an electronic device that supports an **Active Matrix Organic Light Emitting Diode (AMOLED)**, the method comprising: determining a color value to be displayed for each pixel of a screen; changing a brightness value of a color value corresponding to a color ...

Method and apparatus for battery gauging in a portable terminal using amoled ...

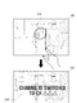


US KR • [US20130119997A1](#) • Jin-Kyu Kim • **Samsung Electronics Co., Ltd.**

Priority 2011-11-14 • Filed 2012-11-13 • Published 2013-05-16

13 . A portable terminal having a display of the type having an **active matrix organic light emitting diode (AMOLED)** panel and a battery, comprising: a memory having a frame buffer; and a controller for measuring a voltage value of the battery to determine a preliminary compensation value by ...

Mobile device with a touch screen and method for controlling digital broadcast ...



US KR • [US20120182477A1](#) • Byoung Tack ROH • **Samsung Electronics Co., Ltd.**

Priority 2011-01-14 • Filed 2012-01-10 • Published 2012-07-19

135 may be implemented with a liquid crystal display (LCD). However, other thin-film technology such as Organic Light Emitting Diodes (**OLED**), **Active Matrix** Organic Light Emitting Diodes (**AMOLED**), Super **AMOLED**, **PMOLED**, or **LED**, just to name a few possibilities. In an exemplary embodiment of the ...

Image sensor and image processing system including same



US KR • US20160248990A1 • Byung Jo Kim • **Samsung Electronics Co., Ltd.**

Priority 2015-02-23 • Filed 2016-02-08 • Published 2016-08-25

displays the image data output from the DSP interface 230 . The display 300 may be a thin film transistor-liquid crystal display (TFT-LCD), a light emitting diode (LED) display, an organic LED (OLED) display, or an **active-matrix OLED (AMOLED)** display. The memory 400 may store the processed image ...

Display device for preventing corrosion of line and electronic device including ...



WO US KR • US20200203661A1 • Jung-Bae Bae • **Samsung Electronics Co., Ltd.**

Priority 2017-09-26 • Filed 2018-09-21 • Published 2020-06-25

The display panel 420 may include at least one of an Organic Light-Emitting Diode (OLED) panel or an On-Cell Touch **AMOLED**(OCTA) panel. Although an Organic Light-Emitting Diode (OLED) panel will be described as an example in the embodiment, the disclosure is not limited thereto. For example, any ...

Input device and electronic device including the same

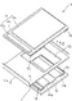


EP US KR • US20150042602A1 • Byung-Jik Kim • **Samsung Electronics Co., Ltd.**

Priority 2013-08-06 • Filed 2014-01-02 • Published 2015-02-12

The display panel 730 may include a Liquid Crystal Display (LCD), an **Active Matrix Organic Light Emitting Diode (AMOLED)** and the like, and may display various images according to various operation statuses of a coordinate measuring device, an execution of an application, a service, and the like. ...

Dual display module and display apparatus having the same



US KR • US20090237324A1 • Yoon-Chan Oh • **Yoon-Chan Oh**

Priority 2008-03-18 • Filed 2009-03-18 • Published 2009-09-24

, wherein each of the first display panel and the second display panel is an OLED (organic light emitting diode) display panel. 10 . The dual display module of claim 9 , wherein the first display panel is an **active matrix OLED** display panel. 11 . The dual display module of claim 9 , wherein the second ...

Active matrix organic light emitting diode display



US JP KR • US20120044235A1 • Sang Hyun Cha • **Samsung Electro-Mechanics Co., Ltd.**

Priority 2010-08-19 • Filed 2011-04-04 • Published 2012-02-23

10 . The **active matrix organic light emitting diode** display of claim 9 , wherein the pixel unit is configured such that the first and third MOS transistors are turned on and the second MOS transistor is turned off in the programming period, and the first and second MOS transistors are turned on and ...

Method and device for automatically controlling luminance of display unit



US KR • US20110298764A1 • Jung Su HA • **Samsung Electronics Co. Ltd.**

Priority 2010-06-04 • Filed 2011-05-18 • Published 2011-12-08

, wherein the display controller comprises an illumination/luminance conversion table, and converts the detected illumination into luminance. 5 . The apparatus of claim 4 , wherein the display element comprises an **active matrix organic light-emitting diode**. 6 . The apparatus of claim 5 , wherein the ...

Apparatus for compensating for deterioration in amoled



US KR • US20110169817A1 • Kyung Ho Lee • **Samsung Electro-Mechanics Co., Ltd.**

Priority 2010-01-12 • Filed 2010-09-01 • Published 2011-07-14

a switch circuit unit connected between an anode of the **active matrix organic light-emitting diode** and a terminal of a deterioration compensation voltage, being turned on or off according to the switching control signal from the switching control unit, and supplying the deterioration compensation ...

Color flat panel display sub-pixel arrangements and layouts for sub-pixel ...



US • US7492379B2 • Thomas Lloyd Credelle • **Samsung Electronics Co., Ltd.**

Priority 2002-01-07 • Filed 2002-10-22 • Granted 2009-02-17 • Published 2009-02-17

wherein said system utilizes one of a group of display technologies, said group of technologies comprising passively addressed Liquid Crystal Display (LCD), ElectroLuminescent (EL) Display, Plasma Display, passively addressed Inorganic **Light Emitting Diode, Organic Light Emitting Diode Display**, ...

Active matrix organic light emitting diode display



US KR • US20090201234A1 • Michael G. Kane • **Samsung Electronics Co., Ltd.**

Priority 2008-02-13 • Filed 2008-02-13 • Published 2009-08-13

2 . The **AMOLED** display of claim 1 , wherein the driving, switching, and programming transistors include p-channels. 3 . The **AMOLED** display of claim 2 , wherein the driving, switching, and programming transistors are organic transistors. 4 . The **AMOLED** display of claim 1 , wherein the driving, switching, ...

Electronic device including rollable display

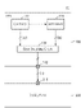


EP US • US20220147179A1 • Minuk Kim • **Samsung Electronics Co., Ltd.**

Priority 2020-11-12 • Filed 2021-11-12 • Published 2022-05-12

... sensor comprises a plurality of strain gauge sensors, and four of the plurality of strain gauge sensors are connected in a Wheatstone bridge form. 20 . The rollable display of claim 19 , wherein the rollable display is a youm-on cell touch **active-matrix organic light emitting diode (AMOLED)** (YOCTA).

Display apparatus including display driving circuit and display panel



US CN • US20220262292A1 • Wonseok Kim • Samsung Electronics Co., Ltd.
Priority 2021-02-17 • Filed 2022-02-01 • Published 2022-08-18
15. The display driving circuit as claimed in claim 9, wherein the display panel includes at least one of an **active matrix organic light-emitting diode (AMOLED)** display panel, a liquid crystal display (LCD) panel, a light-emitting diode (LED) display panel, and a micro LED display panel. 16. A ...

Display driver circuit and method for reducing influence of noise or dither



US CN KR • US20200265770A1 • Hojun CHUNG • Samsung Electronics Co., Ltd.
Priority 2018-06-15 • Filed 2020-05-05 • Published 2020-08-20
... industry processor interface. 9. The display driver circuit of claim 8, wherein the display driver circuit is configured to send image data generated based on the first and second image data to an **active matrix organic light-emitting diode** display panel. 10. The display driver circuit of claim 8,

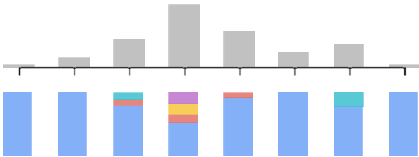
Display apparatus, method of operating a display apparatus and non-transitory ...



US CN KR • US11475850B2 • Daeyoun CHO • Samsung Display Co., Ltd.
Priority 2020-08-25 • Filed 2021-08-04 • Granted 2022-10-18 • Published 2022-10-18
210 may receive luminance data DBV and may convert the luminance data DBV to AOR data corresponding to the luminance data DBV, where DBV stands for digital brightness value, AOR stands for **AMOLED** off ratio, and **AMOLED** stands for **active matrix organic light emitting diode**. The emission driver ...

About 72 results

Top 1000 results by filing date



Relative count of top 5 values

Assignees	Inventors	CPCs
Samsung Electronics Co., Ltd.		7C
Samsung Electronics Co., Ltd		
Samsung Electronics Co. Ltd.		5
Samsung Electro-Mechanics Co., Ltd.		5
Samsung Display Co., Ltd.		4
Expand		