

Search history

Search 1: FT=(flexible w1 display and hinge and foldable) and PRD<201406 (Results 240)
Search 2: FT=(flexible w1 display and hinge and foldable) and PD<201406 (Results 140)

Title: APPLICATION CONTROL BASED ON FLEXIBLE ELECTRONIC DEVICE CONFORMATION SEQUENCE STATUS

Abstract: Source: US2010051680A A method includes, but is not limited to: obtaining and coordinating the one or more sequences of two or more conformations of one or more portions of one or more regions of the flexible electronic device with one or more commands. In addition to the foregoing, other related method/system aspects are described in the claims, drawings, and text forming a part of the present disclosure.

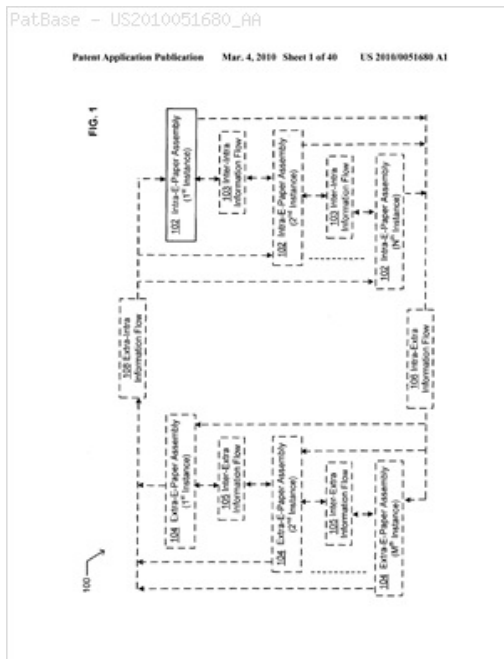
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European: A63F9/06 A63F9/26 G06F1/16D G06F1/16P G06F1/16P1 G06F1/16P3 G06F1/16P9D G06F1/16P9D2 G06F1/16P9D3 G06F1/16P9D5 G06F1/16P9D7 G06F1/16P9E G06F1/16P9M G06F1/16P9M2 G06F1/16P9P G06F1/16P9P7 G06F1/16P9P9 G06F3/00B G06F3/01B G06F3/01G G06F3/0362 G06F3/041 G06F3/041D G06F3/041F G06F3/042 G06F3/048 G06F3/0481 G06F3/0488 G06F3/0488G G06F3/0488T G06F3/14C G09G3/00 G09G3/20T G09G3/34E G09G3/34E2 G09G5/00T K63F9/00D5P K63F9/12 S02F1/133D1 S02F1/167 S02F201/58 S06F200/1637 S06F3/147 S09G3/20 S09G3/34E S09G3/34E2 S09G300/02S S09G300/04 S09G310/02A14 S09G310/04 S09G340/04 S09G354/00 S09G380/02 S09G380/14 T04M1/02A14D2

US: 1/1 235/375 235/375P 235/454 235/472.01 235/491 235/492 273/156 273/157R 273/450 340/10.1 340/10.100S 340/665 340/665S 340/686.1 340/686.100S 345/107 345/107P 345/107S 345/156 345/156P 345/156S 345/157 345/158 345/158S 345/173 345/173P 345/175 345/204 345/204P 345/211 345/214 345/214P 345/30 345/30S 345/31 345/31S 345/33 345/33P 345/48 345/48S 345/501 345/501P 345/55 345/55P 345/619 345/619P 345/647 345/647P 345/76 345/76S 345/84 345/84S 455/3.06 455/3.060P 455/556.2 455/556.200P 455/566 455/566S 700/275 700/275S 701/209 701/300 701/300S 701/533 701/533S 709/204 709/204S 715/702 715/702S 715/716 715/716S 715/863 715/863S

**Family:**

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Probable Assignee: INVENTION SCIENCE FUND I LLC

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Inventor(s): JUNG EDWARD KY

Agent(s): SEARETE LLC CLARENCE T TEGREENE; SEARETE LLC SUITE 110; NORMAN E

Title: FLEXIBLE DISPLAY APPARATUS AND CONTROLLING METHOD THEREOF

Abstract: Source: US2014049464A A flexible display apparatus is provided. The flexible display apparatus includes a display configured to display content on a screen, a sensor configured to detect bending of the display from a first form to a second form, and a controller configured to reconstruct the content based on the bending and to display the reconstructed content in a first screen generated in one region of the display when it is determined that the display is restored to the first form.

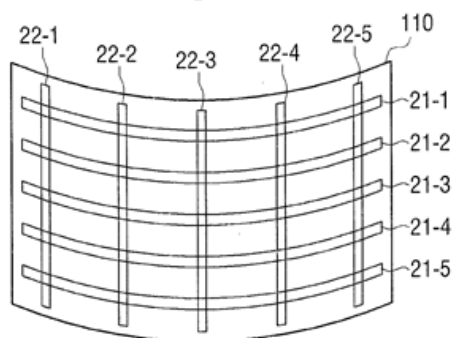
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CPC: G06F1/1652 G06F3/017 G06F3/0414 G06F3/0487 G06F2203/04102 G06F3/01 G06F1/1626 G06F3/0482 G06F3/03 G06F2203/04803 G09G3/003 G09G2320/068 G09G2340/0407 G09G2340/0464 G09G2380/02

US: 1/1 345/156

PatBase - US2014049464_AA



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EP3206108 A2	20170816	EP20170155744	20130820
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RU2015109723 A	20161010	RU20150109723	20130820
US2014049464 AA	20140220	US20130969845	20130819
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Priority:

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Probable Assignee: SAMSUNG ELECTRONICS CO LTD

Assignee(s): (std): SAMSUNG ELECTRONICS CO LTD

Assignee(s): SAMSUNG ELECTRONICS CO

Inventor(s): (std): JUNG SANG KEUN ; KIM HYUN JIN ; KWAK JI YEON ; LEE GEUN HO ; SOHN JUNG JOO

Agent(s): JENKINS RICHARD GAVIN; HGF LTD; JEFFERSON IP LAW LLP; JEONG HONG SIK

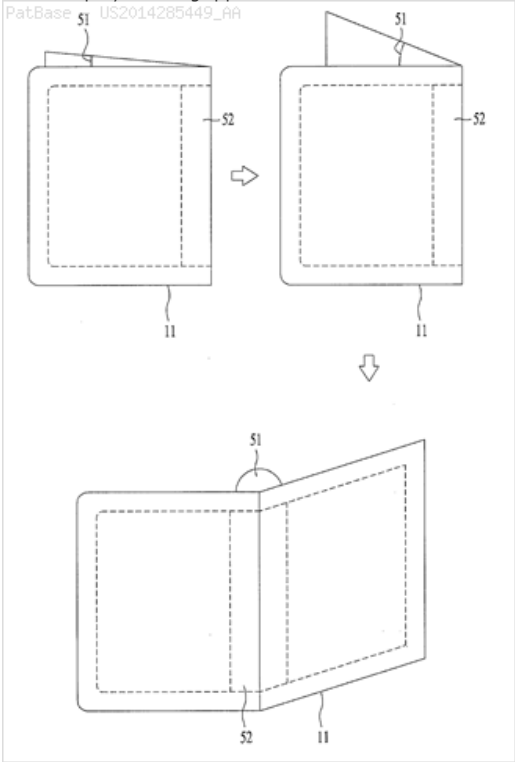
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Title: FOLDABLE DISPLAY DEVICE PROVIDING ADAPTIVE TOUCH SENSITIVE AREA AND METHOD FOR CONTROLLING THE SAME

Abstract: Source: US2014285449A A foldable display device and method for controlling the foldable display device are discussed. The method includes detecting a state of a foldable display unit, the foldable display unit being in a folded state when the foldable display device is folded and being in an unfolded state when the foldable display device is unfolded, the foldable display unit being divided into a first area which is a border area, a second area which is a folding area and a third area located between the first area and the second area; and deactivating a touch sensor unit of the first area and activating touch sensor units of the second area and the third area, when the foldable display unit is gripped in the unfolded state.

Classifications:

International (IPC 8-9): G06F1/16 G06F3/01 G06F3/041 G06F3/0488 G06F3/14 (Advanced/Invention)
CPC: G06F1/1652 G06F3/0416 G06F3/0412 G06F2203/04102 G06F2200/1612 G06F1/1641 G06F1/1643 G06F1/1647 G06F3/0488 G06F3/04886 G06F3/01 G06F1/1616 G06F1/1626 G06F3/041
US: 1/1 345/173



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Probable Assignee: LG ELECTRONICS INC

Assignee(s): (std): LG ELECTRONICS INC

Inventor(s): (std): CHO EUN HYUNG ; CHO EUNHYUNG ; CHUN SI NAE ; CHUN SINAE ; JIN ZHIHUAN ; KIM JI HWAN ; KIM JIHWAN ; QIAN SHINAI ; ZHAO YINHENG

Agent(s): BEYER ANDREAS; BIRCH STEWART KOLASCH AND BIRCH LLP; KIM YONG IN ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: DEVICE INCLUDING PLURALITY OF TOUCH SCREENS AND SCREEN CHANGE METHOD FOR THE DEVICE

Abstract: Source: US2012242599A A screen change method and device are provided. A first screen, from among a plurality of screens, is displayed on a first touch screen. A second screen, which precedes or succeeds the first screen in a sequence of the plurality of screens, is displayed on a second touch screen. A touch is detected on the first touch screen. Continuous movement of the detected touch from the first touch screen to the second touch screen is detected. Other screens, which are different from the first screen and the second screen, from among the plurality of screens, are displayed on the first touch screen and the second touch screen, in response to the detected continuous movement of the touch.

Classifications:

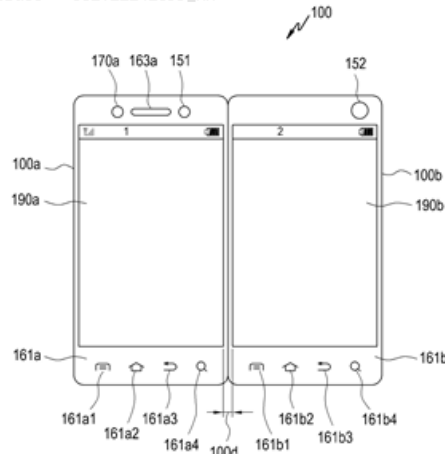
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CPC: G06F3/1446 G09G2310/0221 G06F1/1677 G09G2340/0492 G09G2380/16 G06F3/1431 G06F3/1438 G06F3/01 G06F3/0412 G06F3/0481 G06F3/041 G06F3/04842 G06F3/0484 G06F2203/04102 G06F3/04817 G06F1/1652 G06F3/0488 G06F1/1616 G06F1/1641 G06F1/1647 G06F1/1649 G06F3/04845 G06F3/04847 G06F3/0485 G06F3/0486 G06F3/04886 G06F3/1423 G06F2203/04806 G06F2203/04808 G09G2380/14 G06F3/0482 G06F3/04883 G06F3/0416 H04M1/0214 H04M1/0241 H04M1/72519 G06F2203/04803 G09G5/14 G06F1/1643

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US: 1/1 345/156 345/173 345/174 715/761

PatBase - US2012242599_RR



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KR20120091980 A	20120820	KR20110068316	20110711
KR20120091985 A	20120820	KR20110080024	20110811
KR20120092034 A	20120820	KR20120012426	20120207
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KR20120092036 A	20120820	KR20120012449	20120207
KR20120092037 A	20120820	KR20120012453	20120207
KR20120140225 A	20121228	KR20120066401	20120620
MX2013009121 A1	20131104	MX20130009121	20120210
RU2013141408 A	20150320	RU20130141408	20120210
RU2611023 C2	20170217	RU20130141408	20120210
TH144040 A	20151201	TH20131004460	20120210
US2012242599 AA	20120927	US20120370939	20120210
US2012299813 AA	20121129	US20120371023	20120210
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US2013321340 AA	20131205	US20120984805	20120207
US2013342483 AA	20131226	US20130922637	20130620
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US2017052698 AA	20170223	US20160344665	20161107
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WO12108668 A3	20121220	WO2012KR00888	20120207
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Priority:

AU20120214924	20120210	AU20120214930	20120210	AU20160273937	20161215
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KR20110041102	20110429	KR20110080024	20110811	KR20110059500	20110620
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US20150790496	20150702	US20160344665	20161107	US20170397371	20170103
WO2012KR01025	20120210	WO2013KR05453	20130620		

Probable Assignee: SAMSUNG ELECTRONICS CO LTD

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Assignee(s): SAMSUNG ELEKTRONIKS KO ; SAMSUNG ELECTRONICS CO

Inventor(s): (std): LEE JU YOUN ; PARK MIN KYU ; SEO JOON KYU ; YOO SUNG SIK ; SONG HYUN JUNG ; SEO DZOOK KIU ; RYU DONG SEOK ; LI DZU JOUN ; KVAK DZI JEON ; KANG KIUNG A ; KANG KYUNG A ; KIM HYUN JIN ; KWAK JI YEON

Inventor(s): KYUNG A KANG ; JI YEON KWAK ; JOON KYU SEO ; JU YOUN LEE

Agent(s): PHILLIPS ORMONDE FITZPATRICK; RIDOUT AND MAYBEE LLP; GOVER RICHARD PAUL; BIRCHENOUGH LEWIS; SUGHRUE MION PLLC; FARRELL LAW FIRM PC; LEE KEON JOO; LEE KEON JOO ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Abstract: Source: US2013083496A Flexible electronic devices may be provided. A flexible electronic device may include a **flexible display**, a **flexible** housing and one or more flexible internal components configured to allow the flexible electronic device to be deformed. **Flexible displays** may include **flexible display** layers, **flexible** touch-sensitive layers, and **flexible display** cover layers. The flexible housing may be a multi-stable flexible housing having one or more stable positions. The flexible housing may include a configurable support structure that, when engaged, provides a rigid support structure for the flexible housing. The flexible internal components may include flexible batteries, flexible printed circuits or other flexible components. A flexible battery may include flexible and rigid portions or may include a lubricious separator layer that provides flexibility for the flexible battery. A flexible printed circuit may include flexible and rigid portions or openings that allow some rigid portions to flex with respect to other rigid portions.

International (IPC 8-9): G06F1/16 G06F3/041 G06F3/044 G09F9/00 G09F9/30 G09G3/20 G09G3/32 H01L27/32 H01L51/00 H01L51/50 H01M10/04 H01M2/02 H01M2/10 H01M2/16 H01M2/18 H04M1/02 H05B33/02 H05K1/00 H05K1/02 H05K5/00 H05K5/02 H05K7/14 (Advanced/Invention); H01M2/02 H04M1/02 (Advanced/Non-invention)

CPC: G09G3/2092 G09G2330/027 G09G2380/02 G06F1/1626 G06F2203/04102 H01M2/1022 H01M2/16 H01M2/18 H01M10/0436 H01M2202/0205 H01M2220/30 H04M1/0216 H04M1/0262 H04M1/0268 G09G3/3208 G06F3/0412 G06F2203/04103 G06F1/1652 G06F3/0416 G06F1/163 H01L27/323 H01L51/0097 G06F2203/04101 G06F2203/04105 H01L2251/5338 G06F3/044 G06F1/1677 G06F1/3265

US: 1/1 345/174 361/679.01 361/679.26 361/749 361/752



Publication number	Publication date	Application number	Application date
AU2012316357 AA	20130404	AU20120316357	20120924
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CN107577274 A	20180112	CN201710776454	20120924
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US2017139532 AA	20170518	US20170419730	20170130
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US9274562 BB	20160301	US20150589712	20150105
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WO13048925 A2	20130404	WO2012US56817	20120924
WO13048925 A3	20130606	WO2012US56817	20120924

AU20120316357	20120924	AU20160202872	20160504	US20110250227	20110930
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Agent(s): FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; ROONEY JOHN PAUL; OHTSUKA FUMIAKI; KUMAKURA YOSHIO; NISHIJIMA TAKAKI; TREYZ LAW GROUP; KENDALL P; TREYZ LAW GROUP PC; KENDALL W; TREYZ G VICTOR

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT ZA UA UG US UZ VC VN ZA ZM ZW

Title: FLEXIBLE DISPLAY SUPPORTED BY HINGED FRAME

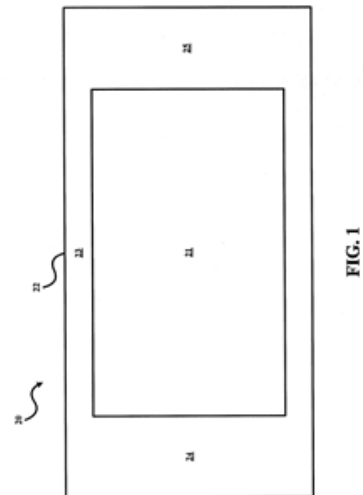
Abstract: Source: US2010064564A A wrap display system (50) employs a stick (70), a flexible display (60) structurally configured to be wrapped around the stick (70), and a hinged frame structurally configured to support the flexible display (60). The flexible display (60) is wrapped around the stick (70) for facilitating a storage of the flexible display (60) and unwrapped from around the stick (70) for facilitating an operation of the flexible display. The hinged frame has a curvilinear configuration for fixing the flexible display (60) in a storage position relative to the stick (70) in response to the flexible display (60) being wrapped around the stick (70), and a planar configuration for fixing the flexible display (60) in an operational position relative to the stick (70) in response to the flexible display (60) being unwrapped from around the stick (70).

Classifications:

International (IPC 8-9): G06F1/00 G06F1/16 G09F11/18 G09F15/00 G09F9/00 G09F9/30 (Advanced/Invention); G06F1/00 G06F1/16 G09F15/00 G09F9/00 G09F9/30 (Core/Invention)
International (IPC 1-7): G06F1/16
CPC: G09F9/301 G06F1/1615 G06F1/1601 G06F1/1652 H04M1/0268 G06F1/16
European: G06F1/16D G06F1/16P1 G06F1/16P9D7 T04M1/02A14D2
US: 40/603 40/607.01 40/607.010P 40/610

PatBase - US2010064564_AA

Patent Application Publication Mar. 18, 2010 Sheet 1 of 11 US 2010/064564 A1



Family:

Publication number	Publication date	Application number	Application date
AR063763 AA	20090218	AR2007P104850	20071031
AT507519 E	20110515	AT20070834653T	20071031
CN101681183 A	20100324	CN200780048859	20071031
CN101681183 B	20130102	CN200780048859	20071031
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EP2087411 A2	20090812	EP20070834653	20071031
EP2087411 B1	20110427	EP20070834653	20071031
JP2010508557 T2	20100318	JP20090535224T	20071031
JP5186507 B2	20130417	JP20090535224T	20071031
KR101408987 B1	20140620	KR20097010960	20071031
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TWI370419 B	20120811	TW20070140732	20071030
US2010064564 AA	20100318	US20070513070	20071031
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WO08054206 A2	20080508	WO2007NL50523	20071031
WO08054206 A3	20080605	WO2007NL50523	20071031

Priority:

US20060863599P 20061031 US20070513070 20071031 WO2007NL50523 20071031

Probable Assignee: SAMSUNG ELECTRONICS CO LTD

Assignee(s): (std): CREATOR TECHNOLOGY BV ; MULLER JOHANNES CORNELIS ANTON ; VERSLEEGERS JOZEF CHRISTIAAN MATHIEU ; MULLER JOHANNES CORNELIS ANTONIUS ; WALTERS MICHAEL JOHANNES ANNA MARIA ; VERSLEEGERS JOZEF CHRISTIAAN M ; WALTERS MICHAEL JOHANNES ANNA ; VISSER HENDRIK DIRK ; POLYMER VISION LTD ; BEBELMANS DAVID J E

Assignee(s): BEBELMANS DAVID JE ; CREATOR TECHNOLOGY B V ; SAMSUNG ELECTRONICS CO LTD ; POLYMER VISION LIMITED

Inventor(s): (std): BEBELMANS DAVID J E ; MULLER JOHANNES CORNELIS ANTON ; MULLER JOHANNES CORNELIS ANTONIUS ; VERSLEEGERS JOZEF CHRISTIAAN M ; VERSLEEGERS JOZEF CHRISTIAAN MATHIEU ; VISSER DIRK ; VISSER HENDRIK DIRK ; WALTERS MICHAEL JOHANNES ANNA ; WALTERS MICHAEL JOHANNES ANNA MARIA ; WALTERS MICHAEL JOHANNES ANNA MARIE ; DIRK VISSER HENDRIK ; ANTON MULLER JOHANNES CORNELIS ; ANNA WALTERS MICHAEL JOHANNES

Inventor(s): BEBELMANS DAVID JE

Agent(s): HATZMANN MARTIN; LEYDIG VOIT AND MAYER LTD; HATZMANN MJ

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: MOBILE TERMINAL USING FLEXIBLE DISPLAY AND METHOD OF CONTROLLING THE MOBILE TERMINAL

Abstract: Source: US2010117975A A mobile terminal including a body and a display module, which is flexible and is capable of receiving a touch input and a method of controlling the mobile terminal are provided. The method includes setting the touch sensitivity of a display module to a first level; if the display module is bent or folded, setting the touch sensitivity of a bent or folded portion of the display module to a second level; and if the display module is unbent or unfolded and thus returns to its original shape, setting the touch sensitivity of the bent or folded portion of the display module back to the first level. Accordingly, it is possible to adaptively adjust the touch sensitivity of the display module according to whether and how the display module is bent or folded.

Classifications:

International (IPC 8-9): G06F1/16 G06F3/01 G06F3/02 G06F3/03 G06F3/033 G06F3/0354 G06F3/041 G06F3/048 G06F3/0487 G06F3/0488 G09G5/00 H04B1/40 H04M1/02 H04M1/247 (Advanced/Invention); G06F3/041 H04B1/40 (Advanced/Non-invention)

CPC: H04M1/0268 G06F1/1626 G06F1/1641 G06F1/1643 G06F1/165 G06F1/1652 G06F3/0202 G06F3/03547 G06F3/0416 G06F3/0418 G06F3/04883 G06F3/04886 H04M1/0202 H04M1/0214 H04M1/0247 H04M2250/16 H04M2250/22 G06F3/0412 G06F2203/04102 H04M1/72522 G06F3/0487 G06F2203/04803 G09G2380/02

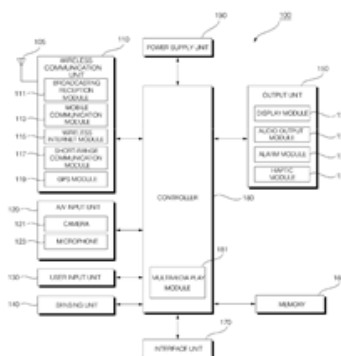
European: G06F1/16P3 G06F1/16P9D2 G06F1/16P9D3 G06F1/16P9D5S G06F1/16P9D7 G06F3/02A G06F3/0354P G06F3/041T G06F3/041T2 G06F3/0488G G06F3/0488T H04M1/02A H04M1/02A14D2 T04M1/02A2B4 T04M1/02A2P T04M250/16 T04M250/22

US: 345/156 345/156S 345/173 345/173P 455/566 455/566S

PatBase - US2010117975_AA

Patent Application Publication May 13, 2010 Sheet 1 of 34 US 2010/0117975 A1

FIG. 1



Family:

Publication number	Publication date	Application number	Application date
CN101739171 A	20100616	CN200910174423	20091109
CN101739171 B	20120704	CN200910174423	20091109
EP2192750 A2	20100602	EP20090013422	20091023
EP2192750 A3	20160302	EP20090013422	20091023
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KR101521219 B1	20150518	KR20080111152	20081110
KR20100052227 A	20100519	KR20080111152	20081110
US2010117975 AA	20100513	US20090606105	20091026
US8502788 BB	20130806	US20090606105	20091026

Priority:

KR20080111152 20081110

Probable Assignee: LG ELECTRONICS INC

Assignee(s): (std): CHO YOUNG MIN ; LG ELECTRONICS INC

Inventor(s): (std): CHO YOUNG MIN ; MIN CHO YOUNG ; YOUNG MIN CHO

Agent(s): KATERLE AXEL; LEE HONG DEGERMAN KANG AND WAIMEY

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Title: BIOLOGICALLY FIT WEARABLE ELECTRONICS APPARATUS AND METHODS

Abstract: Source: US2007248238A Detachable wearable electronic eyeglasses and head mounted gear with a plurality of electronic functions and interchangeable electronic function, and a wearable computer with optimal weight distribution and stretchable arms.

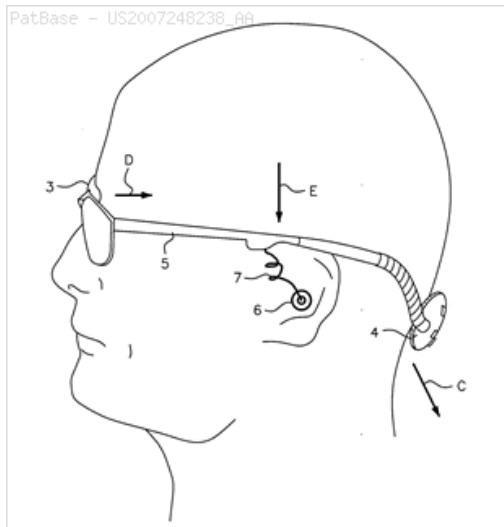
Classifications:

International (ipc 8-9): A41D1/00 B65H75/48 G02B27/01 G02B27/02 G02C1/00 G02C1/06 G02C11/00 G02C11/06 G02C3/00 G02C5/14 G02C7/08 G06F1/16 G06F3/01 G06F3/041 G06F3/16 H02G11/02 H04B1/38 H04H20/88 H04H5/00 H04M1/02 H04M1/03 H04M1/05 H04N5/225 H04N5/64 H04N7/18 H04R1/00 H04R1/02 H04R1/10 H04R25/00 H04W88/00 (Advanced/Invention); A41D1/00 G02C11/00 G02C7/02 H04R1/10 H04R5/033 H04W84/18 (Advanced/Non-invention); G02C1/00 G02C11/00 G02C5/14 G02C7/02 G06F1/16 H04B1/38 H04H5/00 H04M1/04 H04R1/10 H04R25/00 (Core/Invention); A41D1/00 (Core/Non-invention)

International (ipc 1-7): G02C7/08

CPC: G02C5/14 A41D1/002 G06F1/20 G06F2200/201 H04R2420/07 G06F1/163 H04M1/05 H04R2201/023 H04R1/028 H04R1/1066 H04R5/0335 H04R1/1033 G02B27/017 G02B2027/0138 G02B2027/0178 H04R1/105 H04R1/1016 H04N7/185 G02C3/003 G02C11/06 G02C11/10 G02C5/143 G06F3/0414 G06F3/016 G06F3/167

European: G02C11/00 G02C11/06 G02C3/00B G06F1/16P5 G06F1/20 H04M1/05 H04R1/10M2 K41D1/00B S06F200/201 T04R1/10B T04R1/10E T04R201/023 T04R420/07 T04R5/033H
US: 1/1 2/69 2/69P 242/378.1 348/158 351/111 351/158 351/158P 351/159.75 351/177 351/74 381/381 381/381P 381/384 381/384P 381/394 381/74 381/74P 455/41.2 455/41.200P

**Family:**

Publication number	Publication date	Application number	Application date
AU2007205168 AA	20070719	AU20070205168	20070108
AU2007205168 BB	20130131	AU20070205168	20070108
AU2013201159 AA	20130321	AU20130201159	20130228
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AU2013201159 CA	20150312	AU20130201159	20130228
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AU2017228670 AA	20171012	AU20170228670	20170914
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Priority:

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Probable Assignee: GEELUX HOLDINGS LTD

Assignee(s): (std): ABREU MARCIO ; ABREU MARCIO M ; ABREU MARCIO MAR ; ABREU MARCIO MARC ; ABREU MARCIO MARC AURELIO MART ; ABREU MARCIO MARC AURELIO MARTINS ; MARCIO ABREU ; MARCIO MARC ABREU ; GEELUX HOLDINGS LTD

Assignee(s): ABREU MARCIO MARC AURELIO MARTINS MR ; GEELUX HOLDING LTD ; ABREU MARCIO MARC NORTH HAVEN

Inventor(s): (std): MARCIO MARC ABREU ; ABREU MARCIO MARC AURELIO MART ; ABREU MARCIO M ; ABREU MARCIO MARC AURELIO MARTINS ; ABREU MARCIO MAR ; ABREU MARCIO MARC

Inventor(s): ABREU MARCIO MARC NORTH HAVEN ; ABREU MARCIO

Agent(s): FB RICE; FB RICE PTY LTD; MOFFAT AND CO; PFENNING MEINIG AND PARTNER MBB
PATENTANWAELTE; PFENNING MEINIG AND PARTNER GBR; PFENNING MEINIG AND PARTNER MBB; INO
SARI; KUMAKURA YOSHIO; MURAKOSO HIROO; MATSUSHITA MITSURU; KURASAWA ICHIRO;
DESHIMARU TAKESHI; JACOBSON HOLMAN PLLC; STUDEBAKER AND BRACKETT PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ
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JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ
NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ
TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: SYSTEMS AND METHODS FOR LOCATION BASED GAMES AND EMPLOYMENT OF THE SAME ON LOCATION ENABLED DEVICES

Abstract: Source: US2005049022A A location-based game system is provided. Such a system may take the form of any device (e.g., a wireless telephone) that includes a locating device (e.g., a GPS system). One such location-based game may operate such that the actual, physical location of a user on a physical playfield corresponds to the location of a virtual character on a virtual playfield. Such location based games are referred to herein as actuality games. In one multiplayer actuality embodiment, two game devices may communicate location, and other, information to a remote database such that the two user's may interact on different physical playfields, but play on the same virtual playfield. A number of wireless communications protocols, self-configuration, and auto-download software applications are also provided to optimize integration with, for example, a wireless telephone.

Classifications:

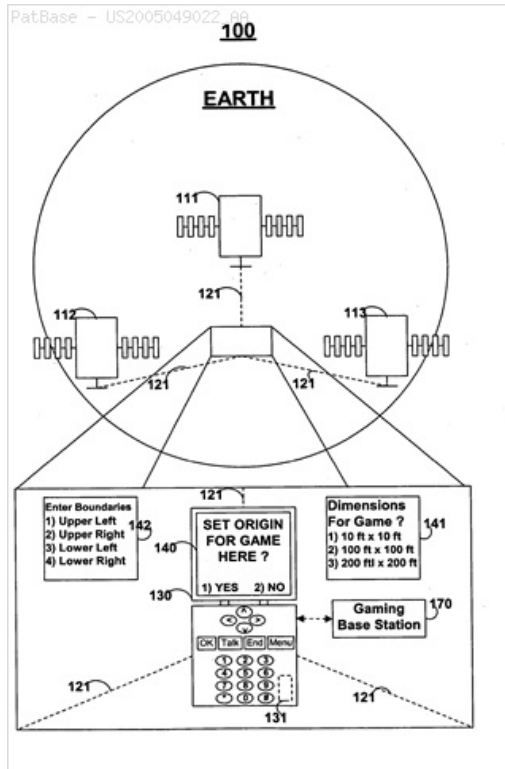
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International (IPC 1-7): G06F17/00 G06F19/00

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Family:

Publication number	Publication date	Application number	Application date
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Priority:

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US20160140451	20160427	US20160228578	20160804		

Probable Assignee: MULLEN JEFFREY DAVID

Assignee(s): (std):	MULLEN JEFFREY D ; MULLEN JEFFREY DAVID
Inventor(s): (std):	MULLEN JEFFREY D ; MULLEN JEFFREY DAVID
Inventor(s):	MULLEN JEFFREY
Agent(s):	JEFFREY D MULLEN

Title: **FLEXIBLE DISPLAY**

Abstract: Source: US2009219225A A **flexible display** includes a plurality of pixel chips, chixels, provided on a flexible substrate. The chixels and the light emitters thereon may be shaped, sized and arranged to minimize chixel, pixel, and subpixel gaps and to provide a desired bend radius of the display. The flexible substrate may include light manipulators, such as filters, light convertors and the like to manipulate the light emitted from light emitters of the chixels. The light manipulators may be arranged to minimize chixel gaps between adjacent chixels.

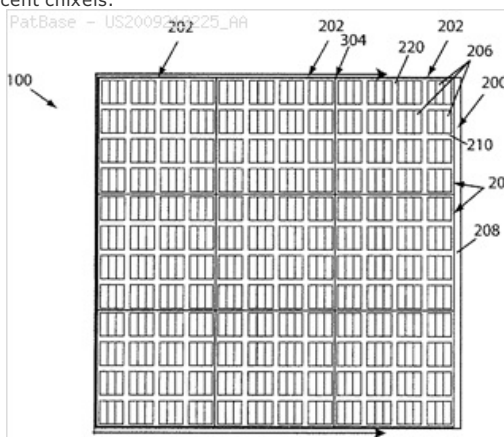
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International (IPC 8-9): F21K99/00 F21V21/096 F21V21/14 F21V23/00 G02F1/1333 G06F3/14 G09F21/04 G09F9/30 G09F9/302 G09F9/33 G09F9/35 G09G3/00 G09G3/20 G09G3/32 G09G3/36 G09G5/00 H01L23/498 H01L25/065 H01L25/075 H01L27/146 H01L33/20 H01L33/48 H04N21/414 H04N5/247 H04N5/64 H04N5/775 H04N7/14 H04N7/15 H05K5/00 H05K5/02 H05K7/14 (Advanced/Invention); F21Y113/00 G09G3/20 G09G3/32 H01L25/075 H01L27/15 H01L33/32 H04N21/414 (Advanced/Non-invention); G09G3/00 G09G3/20 (Core/Invention)

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US: 1/1 257/89 345/1.3 345/55 345/55P 345/698 348/14.07 348/383 348/E7.077 361/730 361/809 362/249.01 362/249.08 386/230 386/E5.07 438/28

**Family:**

Publication number	Publication date	Application number	Application date
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WO09089105 A1	20090716	WO2009US30040	20090102
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Priority:

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Probable Assignee: NANOLUMENS AQUISITION INC

Assignee(s): (std): BRADBURY DANIEL P ; BRAVO JORGE PEREZ ; BYRD JOSHUA MCKELLAR ; COPE RICHARD ; COPE RICHARD C ; COPE RICHARD CRAIG ; NANOLUMENS ; MEINCKE DREW F ; LIU GUO ; NANOLUMENS ACQUISITION INC ; ROWLEY DAVID SCOTT ; PEREZ BRAVO JORGE ; PRICE DOUGLAS ANDREW ; MEINCKE DREW FREDRICK ; NANOLUMENS INC ; THOMAS GARY E ; SILZARS ARIS K

Assignee(s): SQUARE 1 BANK ; WF FUND IV PARTNERSHIP C O B WELLINGTON FINANCIAL LP AND WELLINGTON FINANCIAL FUND IV AS LTD ; NANOLUMENS AQUISITION INC ; PACIFIC WESTERN BANK AS SUCCESSOR IN INTEREST BY MERGER TO SQUARE 1 BANK ; PACIFIC WESTERN BANK

Inventor(s): (std): BYRD JOSHUA MCKELLAR ; COPE RICHARD C ; COPE RICHARD CRAIG ; LIU GUO ; MEINCKE DREW F ; MEINCKE DREW FREDRICK ; PEREZ BRAVO JORGE ; PRICE DOUGLAS ANDREW ; SILZARS ARIS K ; THOMAS GARY E ; ROWLEY DAVID SCOTT ; COPE RICHARD ; BRAVO JORGE PEREZ ; BRADBURY DANIEL P

Agent(s): SUTHERLAND ASBILL AND BRENNAN LLP; THEODORE; GUICE CHAD A ET AL; GRIFFIN MALVERN U III ET AL; GRELL MATHEW L

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: FEATURES TO ENHANCE DATA ENTRY THROUGH A SMALL DATA ENTRY UNIT

Abstract: Source: US2004169635A The present invention is directed to an electronic device (1800) having an extendable section containing a microphone (1802) for inputting information by voice, where in an open position, the extendable microphone (1802) is extended towards a user's mouth. In addition, the device has a keypad (1801) and where the microphone (1802) is used in a data entry method combining voice/speech of a user and the key press. In order to select a symbol on a key, the user presses the corresponding key and simultaneously speaks the symbols.

Classifications:

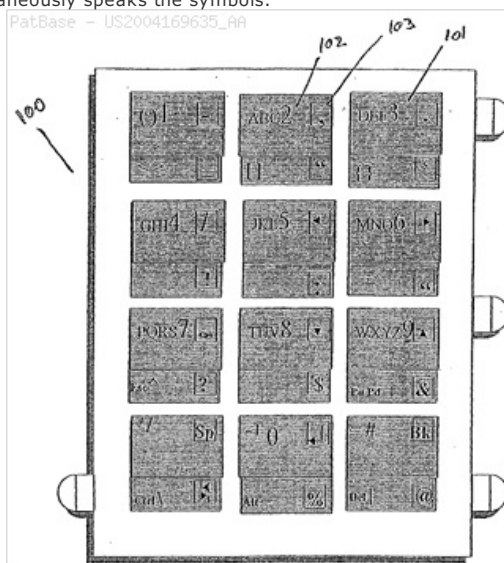
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European: B41J3/44B G06F1/16P G06F1/16P1 G06F1/16P1F G06F1/16P3 G06F1/16P5 G06F1/16P6 G06F1/16P9D2 G06F1/16P9D7 G06F1/16P9K G06F1/16P9K10 G06F1/16P9P G06F1/16P9P2 G06F1/16P9P6 G06F1/16P9P8 G06F1/16P9P9 G06F3/01B G06F3/01B6 G06F3/01G G06F3/023M G06F3/023M4 G06F3/023M6 G06F3/023M8 G06F3/02A G06F3/02A3P G06F3/02A6 G06F3/0354C G06F3/0354M G06F3/0354N G06F3/0354P G06F3/0354T G06F3/038 G06F3/03H G06F3/03H3 G06F3/042 G06F3/0482 G06F3/0488 G06F3/0488G G06F3/0488T G06F3/16 G06K9/00A G10L15/25 G10L15/26A H04B1/40C4 H04M1/02A H04M1/02A2P H04M1/23 H04M1/2745M H04M1/27A H04M1/725F1B H04M1/725F1M4 S06F200/1614 S06F203/0338 S06F203/0381 T04M1/02A2B4 T04M1/02A2B8 T04M1/27A T04M1/725F1B1 T04M250/12 T04M250/16 T04M250/70 T04M250/74

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**Family:**

Publication number	Publication date	Application number	Application date
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Probable Assignee: KEYLESS SYSTEMS LTD

Assignee(s): (std): FIROOZ GHASSABIAN ; GHASABIAN FIROOZ ; GHASSABIAN FIROOZ BENJAMIN ; GHASSABIAN BENJAMIN ; GHASSABIAN FIROOZ ; GHASSABIN BENJAMIN FIROOZ ; KEYLESS SYSTEMS LTD ; FIROOZ GHASSABIAN BENJAMIN ; GHASSABIAN BENJAMIN F ; BENJAMIN FIROOZ GHASSABIAN ; BENJAMIN GHASSABIAN ; GHASSABIAN BENJAMIN FIROOZ

Assignee(s): CLASSICOM ; COLLISON AND CO ; BENJAMIN FIROOZ GHASSABIN

Inventor(s): (std): GHASSABIAN FIROOZ BENJAMIN ; KEYLESS SYSTEMS LTD ; GHASSABIN BENJAMIN FIROOZ ; GHASSABIN BEHJAMIN FIROOZ ; GHASSABIAN FIROOZ ; GHASSABIAN F ; GHASSABIAN BENJAMIN FIROOZ ; GHASSABIAN BENJAMIN F ; GHASABIAN FIROOZ ; FIROOZ GHASSABIAN BENJAMIN ; FIROOZ GHASSABIAN

Inventor(s): F GHASSABIAN ; BENJAMIN FIROOZ GHASSABIN ; BENJAMIN FIROOZ GHASSABIAN ; GHASSABIAN BENJAMIN

Agent(s): COLLISON AND CO; BORDEN LADNER GERVAIS LLP; MAGGS MICHAEL NORMAN ET AL; MAGGS MICHAEL NORMAN; LEIHKUAF STEFFEN FALK; POMPER TILL; BECKER KURIG STRAUS; Becker Kurig Straus; DEKEL PATENT LTD; JMB DAVIS BEN DAVID; REINHOLD COHN AND PARTNERS; SHOYO INTELLECTUAL PROPERTY FIRM; SOFER AND HAROUN LLP; BROWDY AND NEIMARK PLLC 624 NINTH STREET NW; DAVID; SOFER JOSEPH

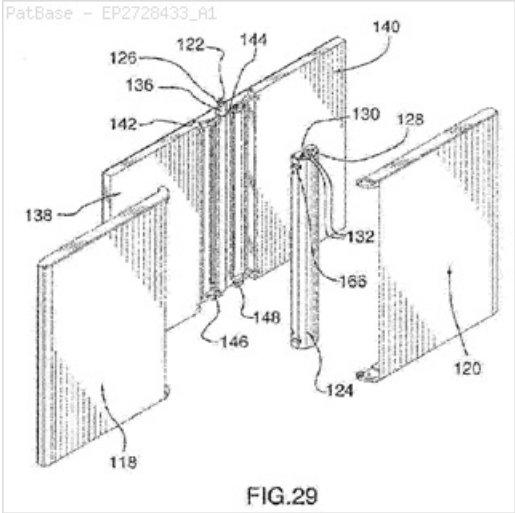
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Title: HALTER FUER EINE FLEXIBLE ANZEIGE SUPPORT FOR A FLEXIBLE DISPLAY

Abstract: Source: EP2728434A1 A device includes: a first component and a second component coupled to one another by a pivot member and being movable relative to one another between an open position in which the first component and the second component are in the same plane and a folded position; a first slider coupled to the first component and a second slider coupled to the second component; and a flexible membrane coupled to the first slider and the second slider, the flexible membrane being exposed in the folded position; wherein the first component and the second component are coupled to one another to maintain the flexible membrane at a constant length when the flexible membrane is moved between the open position and the folded position.

Classifications:

International (IPC 8-9): G03B17/04 G06F1/16 H04M1/02
H04W88/02 (Advanced/Invention)
CPC: G06F1/1652 G06F1/1681 H04M1/0268 H04M1/0216 H04M1/022
H04M1/0237 H04M1/0247



Family:

Publication number	Publication date	Application number	Application date
CA2828860 AA	20140502	CA20132828860	20130927
EP2728433 A1	20140507	EP20120191051	20121102
EP2728434 A1	20140507	EP20120191052	20121102
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Priority:

EP20120191051 20121102 EP20120191052 20121102

Probable Assignee: BLACKBERRY LTD

Assignee(s): (std): BLACKBERRY LTD

Assignee(s): GRIFFIN JASON TYLER ; KAYSER DANIEL JORDAN ; RIDDIFORD MARTIN PHILIP

Inventor(s): (std): GRIFFIN JASON T ; GRIFFIN JASON TYLER ; KAYSER DANIEL JORDAN ; RIDDIFORD MARTIN PHILIP

Agent(s): BORDEN LADNER GERVAIS LLP; MOORE BARRY; HANNA MOORE AND CURLEY

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO
PL PT RO RS SE SI SK SM TR

Title: **FLEXIBLE DISPLAY** FOLDABLE ASSEMBLY

Abstract: Source: US2012314399A In embodiments of a **flexible display** foldable assembly, a foldable assembly includes first flanges integrated in a first housing part of a foldable electronic device. The foldable electronic device includes a **flexible display**, and the first housing part is integrated with a first section of the **flexible display**. The foldable assembly also includes second flanges integrated in a second housing part of the foldable electronic device, and the second housing part is integrated with a second section of the **flexible display**. The second flanges are implemented to fold-interlock with the first flanges to form a bend radius of the **flexible display** around the first and second flanges in a closed position of the foldable electronic device. The first and second flanges are also implemented to support the **flexible display** in the closed position of the foldable electronic device.

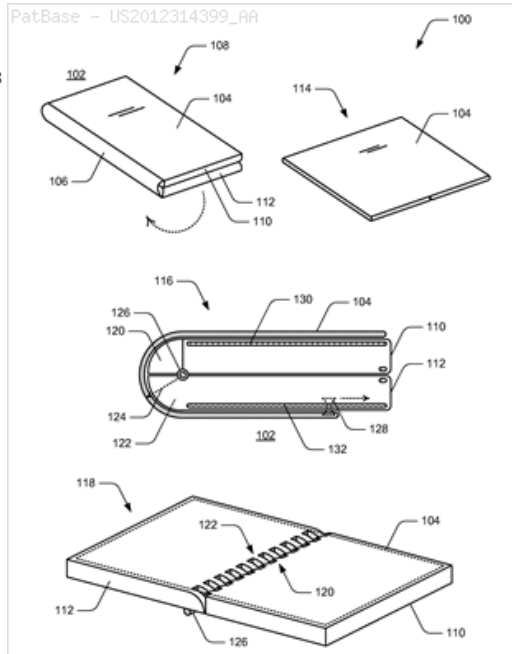
Classifications:

International (IPC 8-9): G02F1/13357 G06F1/16 H04M1/02

H05K13/00 H05K5/00 (Advanced/Invention)

CPC: G06F1/1681 G06F1/1616 G06F1/1652 H04M1/0216 H04M1/0268 Y10T29/49002 H04M1/0247

US: 29/592.1 361/679.01 362/97.1



Family:

Publication number	Publication date	Application number	Application date
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TW201301002 A	20130101	TW20120115469	20120501
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Priority:

US20110154786 20110607 WO2012US41185 20120606

Probable Assignee: MICROSOFT TECHNOLOGY LICENSING LLC

Assignee(s): (std): MICROSOFT CORP ; MICROSOFT CORP ATTENTION SHARON RYDBERG SHARONR 21 2029 LCA INT PATENT DEPT ; O BRIEN PAUL M ; BOHN DAVID D

Assignee(s): MICROSOFT ATTENTION SHARON RYDBERG SHARONR 21 2029 LCA INT PATENT DEPARTMENT CORP ; MICROSOFT TECHNOLOGY LICENSING LLC

Inventor(s): (std): BOHN DAVID D ; O BREIN PAUL M ; O BRIEN PAUL M

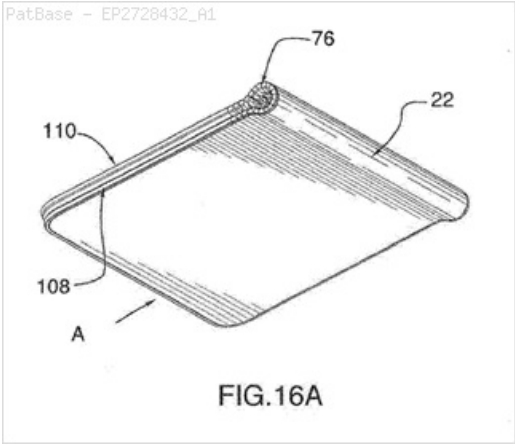
Agent(s): FISCHER MICHAEL MARIA

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: HALTER FUER EINE FLEXIBLE ANZEIGE SUPPORT FOR A FLEXIBLE DISPLAY

Abstract: Source: EP2728432A1 A support (76) for a flexible display (22) of a portable electronic device includes: a first hinge element coupled to a second hinge element in a side-by-side arrangement, the first hinge element having: a display-receiving surface extending at least partway along a length of the first hinge element, the display-receiving surface for coupling to the flexible display; and a guide coupling the first hinge element to the second hinge element and guiding movement of the second hinge element relative to the first hinge element along a path between a first stop and a second stop, the first stop for limiting movement in a first direction and the second stop for limiting movement in a second direction; a neutral plane associated with movement of the first hinge element relative to the second hinge element is external to the support and located adjacent to the display-receiving surface.

Classifications:
International (IPC 8-9): E05D7/00 G06F1/16 H04M1/02 H05K7/14 (Advanced/Invention); H04W88/02 (Advanced/Non-invention)
CPC: G06F1/1681 H04M1/0216 G06F1/1652 H04M1/0268



Family:

Publication number	Publication date	Application number	Application date
CA2828853 AA	20140502	CA20132828853	20130927
EP2728432 A1	20140507	EP20120191050	20121102

Priority:

EP20120191050 20121102

Probable Assignee: BLACKBERRY LTD

Assignee(s): (std): BLACKBERRY LTD

Assignee(s): GRIFFIN JASON TYLER ; RIDDIFORD MARTIN PHILIP ; ALLWRIGHT JULIA

Inventor(s): (std): ALLWRIGHT JULIA ; GRIFFIN JASON T ; GRIFFIN JASON TYLER ; RIDDIFORD MARTIN PHILIP

Agent(s): BORDEN LADNER GERVAIS LLP; MOORE BARRY

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Title: CASE AND DISPLAY DEVICE

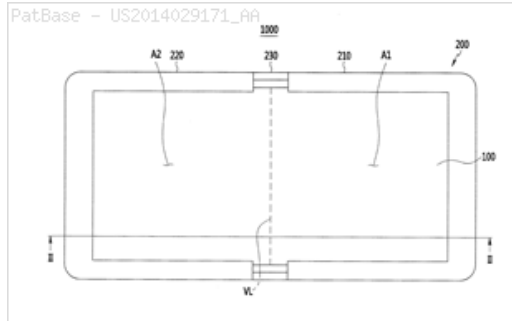
Abstract: Source: US2014029171A A case for supporting a foldable display panel includes a first main body located to correspond to a first area of the foldable display panel; a second main body located to adjoin the first main body and correspond to a second area of the foldable display panel, and folded in a direction of the first main body so that the second area of the foldable display panel faces the first area; and a mover, responsive to an elastic restitution force, located within at least the first main body to be supported by a rear surface of the foldable display panel, at least one of the first area and the second area of the foldable display panel being slidable in conjunction with the mover in a direction of at least one an end of the foldable display panel.

Classifications:

International (IPC 8-9): G06F1/16 G09F9/00 G09F9/30 H01L51/50 H04M1/02 H05K5/00 H05K5/02 H05K7/16 H05K7/18 (Advanced/Invention)

CPC: H05K7/16 G06F1/1652 G09F9/301 H04M1/0268 H04M1/0216 H01L51/0097

US: 1/1 361/679.01



Family:

Publication number	Publication date	Application number	Application date
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KR20140014669 A	20140206	KR20120081296	20120725
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Priority:

EP20130177392 20130722 KR20120081296 20120725

Probable Assignee: SAMSUNG DISPLAY CO LTD

Assignee(s): (std): SAMSUNG DISPLAY CO LTD

Assignee(s): SAMSUNG DISPLAY CO LTD YONGIN SI ; SAMSUNG DISPLAY CO

Inventor(s): (std): LEE SANG WOL ; SANG WOL LEE

Agent(s): GULDE AND PARTNER PATENT U RECHTSANWALTSKANZLEI MBB; MOUNTENEY SIMON JAMES; ROBERT E

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Title: **FLEXIBLE DISPLAY** OVERCENTER ASSEMBLY

Abstract: Source: US2012307472A In embodiments of a **flexible display** overcenter assembly, an overcenter assembly includes a first flange integrated in a first housing part of a foldable electronic device. The device includes a **flexible display**, and the first housing part is integrated with a first section of the **flexible display**. The overcenter assembly also includes a second flange integrated in a second housing part of the foldable electronic device, and the second housing part is integrated with a second section of the **flexible display**. The first and second flanges are implemented to fold and form a radius that supports the **flexible display** in a closed position of the device. Hinge assemblies are implemented to movably couple the first and second housing parts of the foldable electronic device, and the **flexible display** bends through a pivot axis of the hinge assemblies when the first and second housing parts of the device are closed.

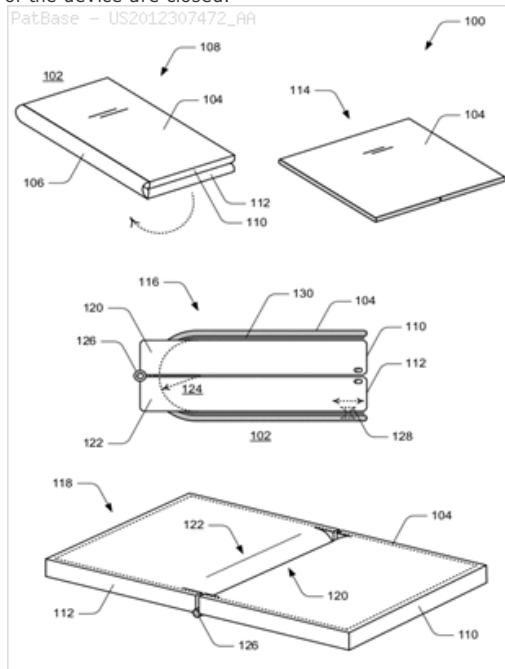
Classifications:

International (IPC 8-9): H05K13/00 H05K5/00

H05K7/00 (Advanced/Invention)

CPC: G06F1/1616 G06F1/1652 G06F1/1681 H04M1/0216 H04M1/022 H04M1/0268

US: 29/592.1 345/1.1 361/679.06 361/679.21 361/679.27 361/679.28 361/679.55 361/807 455/575.4



Family:

Publication number	Publication date	Application number	Application date
US2012307472 AA	20121206	US20110153092	20110603
US8804324 BB	20140812	US20110153092	20110603

Priority:

US20110153092 20110603

Probable Assignee: MICROSOFT TECHNOLOGY LICENSING LLC

Assignee(s): (std): BOHN DAVID D ; FRUHAUF CHRISTOPHER B ; MICROSOFT COROPRATION ; MICROSOFT CORP ; O BRIEN PAUL M

Assignee(s): MICROSOFT TECHNOLOGY LICENSING LLC

Inventor(s): (std): BOHN DAVID D ; FRUHAUF CHRISTOPHER B ; O BRIEN PAUL M

Agent(s): JUDY; MICKY

Title: HANDHELD ELECTRONIC DEVICE HAVING A FLEXIBLE DISPLAY

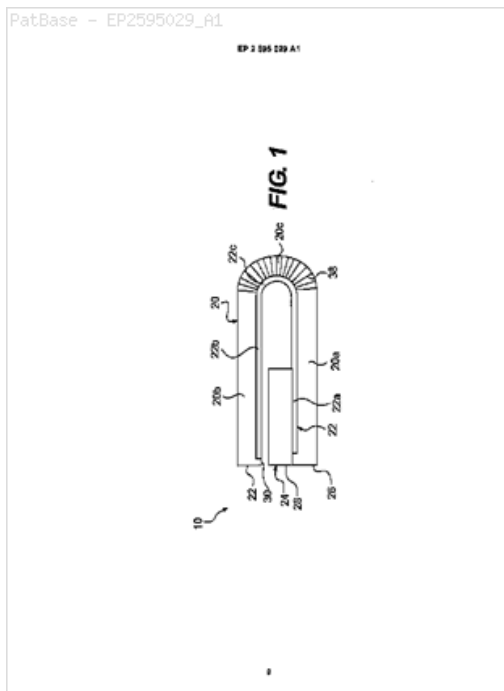
Abstract: Source: EP2595029A1 A handheld electronic device includes a housing, a flexible display associated with the housing, and an input portion linked to the housing. The flexible display has a folded arrangement in which the flexible display defines a first portion and a second portion. The device is configured to sandwich the input portion in-between the first portion of the flexible display and the second portion of the flexible display when the flexible display is in the folded arrangement.

Classifications:

International (IPC 8-9): G06F1/16 H04M1/02

H05K5/02 (Advanced/Invention)

CPC: G06F1/1652 G06F1/1616



Family:

Publication number	Publication date	Application number	Application date
CA2791574 AA	20130515	CA20122791574	20121001
CN103167070 A	20130619	CN201210387837	20121012
EP2595029 A1	20130522	EP20110189144	20111115
EP2595029 A9	20140219	EP20110189144	20111115

Priority:

CA20122791574 20121001 EP20110189144 20111115

Probable Assignee: BLACKBERRY LTD

Assignee(s): (std): BLACKBERRY LTD ; RESEARCH IN MOTION LTD

Assignee(s): GRIFFIN JASON TYLER ; LADOUCEUR NORMAN MINER ; RESEARCH IN MOTION LIMITED

Inventor(s): (std): GRIFFIN JASON TYLER ; LADOUCEUR NORMAN MINER

Agent(s): RIDOUT AND MAYBEE LLP; HIBBERT JULIET JANE GRACE

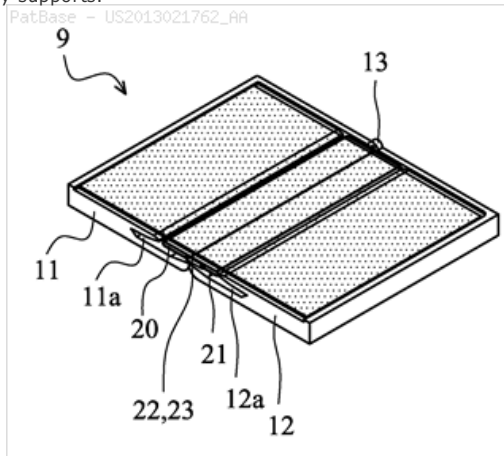
Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Title: **FLEXIBLE DISPLAY** WITH DISPLAY SUPPORT

Abstract: Source: US2013021762A A display system includes a continuous **flexible display** and two main display supports being hingeable with respect to each other between a closed storage position and a planar configuration for fixing the **flexible display** in an open position. At least one additional display support supports a segment of the **flexible display** located between the said respective portions of the **flexible display** in the open position. This additional display support is movable with respect to the display segment between a non-operational position and a support position when the two main display supports are moved between the storage position and the planar position, such that in the open position substantially the whole surface of the display is supported by the respective display supports.

Classifications:

International (IPC 8-9): G06F1/16 G09F9/30 H04M1/02 H05K5/00 H05K5/02 H05K7/00 (Advanced/Invention)
CPC: G09F9/301 G06F1/1681 H04M1/0268 H05K5/0017 H05K5/0226 G06F1/1652
European: G06F1/16P9D7
US: 1/1 361/679.01 361/749



Family:

Publication number	Publication date	Application number	Application date
CN103034293 A	20130410	CN201210240844	20120711
EP2546721 A2	20130116	EP20120175310	20120706
EP2546721 A3	20160706	EP20120175310	20120706
US2013021762 AA	20130124	US20120545872	20120710
US2016143162 AA	20160519	US20150956323	20151201
US9235239 BB	20160112	US20120545872	20120710

Priority:

US20110506177P 20110711 US20120545872 20120710 US20150956323 20151201

Probable Assignee: SAMSUNG ELECTRONICS CO LTD

Assignee(s): (std): CREATOR TECHNOLOGY BV ; HAMERS JOHANNES CORNELIS ADRIAAN ; KRUIDHOF RIK ; POLYMER VISION B V ; POLYMER VISION BV ; WALTERS MICHAEL JOHANNES ANNA MARIA ; VERSCHOOR VOLKER BARNHART ; VAN DIJK ROBERT SJANG JOSINE ; SAMSUNG ELECTRONICS CO LTD

Assignee(s): SAMSUNG ELECTRONICS CO

Inventor(s): (std): WALTERS MICHAEL JOHANNES ANNA MARIA ; VERSCHOOR VOLKER BARNHART ; VAN DIJK ROBERT SJANG JOSINE ; KRUIDHOF RIK ; HAMERS JOHANNES CORNELIS ADRIAAN

Agent(s): GODDAR HEINZ J; HGF LTD

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Title: PORTABLE DEVICE AND METHOD FOR CONTROLLING THE SAME

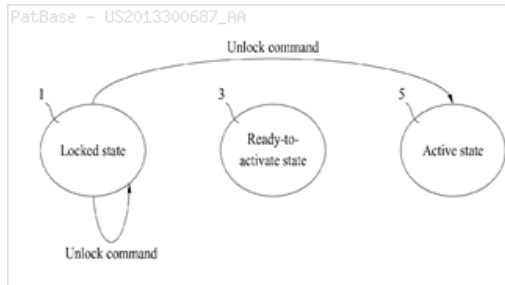
Abstract: Source: US2013300687A A portable device including double-sided displays and a method for controlling the same are provided. The method includes detecting an unlock command for the portable device, which is a command to switch the first display unit to an active state and to switch the second display unit to a ready-to-activate state, switching the first display unit to an active state and switching the second display unit to a ready-to-activate state when the unlock command is the second command, detecting an unlock trigger for the second display unit, which serves to switch a display unit, which is in a ready-to-activate state, to an active state, and switching the second display unit from the ready-to-activate state an active state according to the detected unlock trigger.

Classifications:

International (IPC 8-9): G06F1/16 G06F1/32 G06F21/31 G06F3/01 G06F3/041 G06F3/0488 G06F3/14 G06G5/00 G09G5/00 H04B1/40 H04M1/02 H04W52/02 H04W88/02 (Advanced/Invention)

CPC: G06F1/3206 G06F3/04883 G09G2360/04 G09G2354/00 H04M1/0202 G06F3/0488 H04M1/72519 G06F1/1626 G06F1/1643 G06F3/14 G06F1/3228 G06F1/3262 H04M1/66 H04M2250/16 H04W52/0254 G06F3/1423 G06F21/32 H04W52/027 G06F1/1647 G06F1/1694 G06F1/3265 G06F1/3287 G06F3/017 G06F3/1446 G06F2200/1637 G09G2300/023 G09G2320/028 G06F3/041 Y02D10/153 Y02D70/00 Y02D70/164 Y02D50/20 Y02D10/171

US: 345/1.1 345/156 345/173 455/566



Family:

Publication number	Publication date	Application number	Application date
CN104272853 A	20150107	CN201280072743	20120628
EP2850911 A1	20150325	EP20120876987	20120628
EP2850911 A4	20151209	EP20120876987	20120628
KR20130127288 A	20131122	KR20120051093	20120514
US2013300687 AA	20131114	US20130841002	20130315
US2013300689 AA	20131114	US20130858816	20130408
US2014062931 AA	20140306	US20130071445	20131104
US2015130738 AA	20150514	US20140577683	20141219
US2015234629 AA	20150820	US20120408480	20120628
US8416148 BA	20130409	US20120544772	20120709
US8593371 BA	20131126	US20130858816	20130408
US8674900 BB	20140318	US20130841002	20130315
US8872730 BB	20141028	US20130071445	20131104
US9575708 BB	20170221	US20140577683	20141219
US9710213 BB	20170718	US20120408480	20120628
WO13172507 A1	20131121	WO2012KR05136	20120628

Priority:

KR20120051093	20120514	US20120544772	20120709	US20120544772	20120709
US20130841002	20130315	US20130858816	20130408	US20130071445	20131104
WO2012KR05136	20120628	US20140577683	20141219		

Probable Assignee: LG ELECTRONICS INC

Assignee(s): (std): LG ELECTRONICS INC ; PARK HYORIM

Inventor(s): (std): PARK HYO RIM ; PARK HYORIM

Agent(s): BEYER ANDREAS; BIRCH STEWART KOLASCH AND BIRCH LLP; KIM YONG IN ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: FOLDABLE DISPLAY DEVICE

Abstract: Source: US2014111954A A foldable display device including a case that stably supports a **flexible display** panel for improving user convenience is disclosed. In one aspect, the foldable display device includes a **flexible display** panel including a foldable area between lateral plane areas thereof and a pair of front cases surrounding a front perimeter of the **flexible display** panel. The device also includes a pair of bottom cases coupled with the pair of front cases to house the **flexible display** panel and a biaxial hinge member mounted to the bottom case in the foldable area to connect the pair of front cases to respective rotation points.

Classifications:

International (IPC 8-9): F16C11/04 G06F1/16 G09F9/00 G09F9/30

H05K1/00 H05K1/02 H05K5/00 H05K5/02

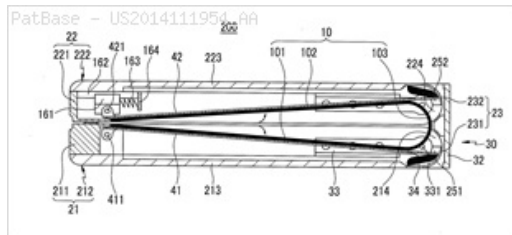
H05K7/18 (Advanced/Invention)

CPC: H05K5/0226 H05K1/028 H05K5/0017 G06F1/1641 G06F1/1679

G06F1/1681 H04M1/022 H04M1/0268 G09F9/00 G06F1/16

G06F1/1601 G06F1/1616

US: 361/679.01 361/679.08 361/748 361/749



Family:

Publication number	Publication date	Application number	Application date
CN103778858 A	20140507	CN201310492224	20131018
CN103778858 B	20180102	CN201310492224	20131018
KR20140050504 A	20140429	KR20130007548	20130123
TW201417068 A	20140501	TW20130137680	20131018
TWI611381 B	20180111	TW20130137680	20131018
US2014111954 AA	20140424	US20130053506	20131014
US8804349 BB	20140812	US20130053506	20131014

Priority:

KR20120116532 20121019 KR20130007548 20130123

Probable Assignee:

SAMSUNG DISPLAY CO LTD

Assignee(s): (std):

SAMSUNG DISPLAY CO LTD

Assignee(s):

SAMSUNG DISPLAY CO

Inventor(s): (std):

KEE IN SEO ; LEE SANG WOL

Agent(s):

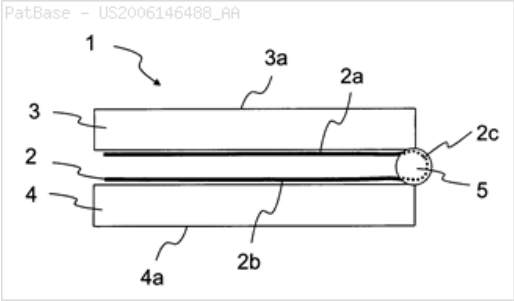
KNOBBE MARTENS OLSON AND BEAR LLP

Title: FOLDABLE ELECTRONIC DEVICE AND A FLEXIBLE DISPLAY DEVICE

Abstract: Source: US2006146488A An electronic device, which comprises: at least two parts foldable in relation to each other, which can be turned into a first position and into a second position around a rotation axis; and a flexible display device, which extends over at least two foldable parts, covering them either entirely or partly. The flexible display device comprises: a folded position, to which the display device settles in the first position, and in which it folds around a first direction, which is parallel in relation to the rotation axis; and a curved position, to which the display device settles in the second position, and in which it curves around a second direction, which is transverse in relation to the rotation axis. A flexible display device can also be used with an electronic device.

Classifications:

International (IPC 8-9): G06F1/16 G06F9/30 G09G3/34 G09G5/00 H04M1/02 (Advanced/Invention); G06F1/16 G09G3/34 G09G5/00 (Core/Invention)
CPC: Y10S345/903 G09F9/301 G06F1/1616 G06F1/1652 G06F1/1677 G06F1/1681 H04M1/0214 H04M1/0268
European: G06F1/16P1F G06F1/16P9D7 G06F1/16P9M2 G06F1/16P9M6 H04M1/02A14D2 T04M1/02A2B4
US: 345/1.3 345/108 345/903 349/58 361/679.04 361/679.040P 361/679.27 361/679.270S 361/681 361/683



Family:

Publication number	Publication date	Application number	Application date
CN101120295 A	20080206	CN200680001771	20060105
CN101120295 B	20100421	CN200680001771	20060105
EP1839101 A1	20071003	EP20060700070	20060105
EP1839101 A4	20120912	EP20060700070	20060105
EP1839101 B1	20170823	EP20060700070	20060105
US2006146488 AA	20060706	US20050030570	20050105
US7714801 BB	20100511	US20050030570	20050105
WO06072670 A1	20060713	WO2006FI50010	20060105

Priority:

US20050030570 20050105 WO2006FI50010 20060105

Probable Assignee: NOKIA TECHNOLOGIES OY

Assignee(s): (std): KIMMEL JYRKI ; NOKIA CORP ; NOKIA TECHNOLOGIES OY

Inventor(s): (std): JYRKI KIMMEL ; KIMMEL JYRKI

Agent(s): ESPATENT OY; WARE FRESSOLA VAN D SLUYS AND ADOLPHSON LLP; ALFRED; WARE FRESSOLA VAND DER SLUYS AND ADOLPHSON LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: FOLDABLE DISPLAY, INPUT DEVICE PROVIDED WITH THE DISPLAY AND FOLDABLE KEYBOARD, AND PERSONAL COMPUTER PROVIDED WITH THE INPUT DEVICE

Abstract: Source: US2004052044A A joint (129) includes semicircular plates (131) each integrally formed with a link part (132) having a screw hole (133). The joint (129) couples cover members (107, 117) of a **flexible display** (102) by means of screws (134) passing through the screw holes (133) and grooves (125, 128) of the cover members (107, 117). The link parts (132) of the semicircular plates (131) are caused to operate in sync with each other to stably perform an opening and closing operation of the cover members (107, 117).

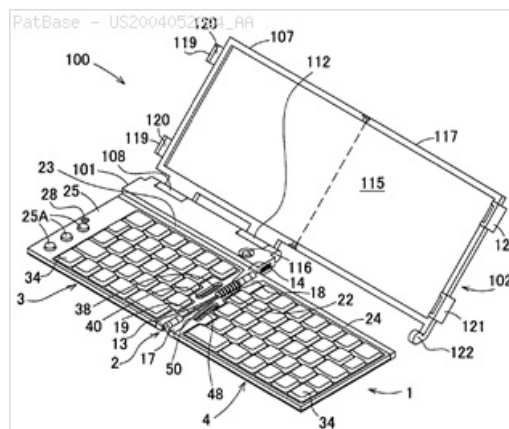
Classifications:

International (IPC 8-9): G06F1/16 G06F3/00 G06F3/02 G09F9/00 G09F9/40 G09G5/00 H01L51/50 H05B33/14 (Advanced/Invention); G06F1/16 G06F3/00 G06F3/02 G09F9/00 G09F9/40 G09G5/00 H01L51/50 H05B33/14 (Core/Invention)

International (IPC 1-7): G06F1/16 G06F15/02 G06F3/00 G06F3/02 G09F9/00 G09F9/40 H05B33/14

CPC: Y10S345/905 G06F1/1641 G06F1/1616 G06F1/1624 G06F1/1666 G06F1/1679

US: 345/168 345/905 349/58 361/679.06 361/679.09 361/679.15 361/68 361/680 361/681 361/683



Family:

Publication number	Publication date	Application number	Application date
CN1254730 C	20060503	CN20031024999	20030917
CN1495586 A	20040512	CN20031024999	20030917
CN2724074 Y	20050907	CN20032052661U	20030917
JP2004109382 A2	20040408	JP20020270647	20020917
JP2004110303 A2	20040408	JP20020270648	20020917
JP2004110304 A2	20040408	JP20020270649	20020917
JP2004110305 A2	20040408	JP20020270650	20020917
JP2004118803 A2	20040415	JP20020285270	20020930
TW200416517 A	20040901	TW20030125391	20030915
TWI235905 B	20050711	TW20030125391	20030915
US2004052044 AA	20040318	US20030657152	20030909
US7446757 BB	20081104	US20030657152	20030909

Priority:

JP20020270647 20020917 JP20020270648 20020917 JP20020270649 20020917
JP20020270650 20020917 JP20020285270 20020930

Probable Assignee: BROTHER KOGYO KK

Assignee(s): (std): BROTHER IND LTD

Assignee(s): BROTHER KOGYO K K ; BROTHER KOGYO KABUSHIKI KAISHA ; BROTHER KOGYO KK

Inventor(s): (std): ISAO MOCHIZUKI ; MOCHIZUKI ISAO ; TAGAGI TAKEYUKI ; TAKAGI TAKEYUKI ; TAKEYUKI MOCHIZUKI ISAO TAKAGI ; TAKEYUKI TAKAGI

Inventor(s): TAKEYUKI TAGAGI ; MOCHIZUKI ISAO TAKAGI TAKEYUKI

Agent(s): TOMIZAWA TAKASHI; YAMANAKA IKUO; OKADO AKIYOSHI; OLIFF AND BERRIDGE PLC

Title: CROSSFOLD ELECTRONIC DEVICE

Abstract: Source: US2010041439A A computing device with a keyboard and display is configurable to fold from a compact and protective pocket sized closed configuration to other computing configurations. An embodiment of the device includes dispersed or interspersed hinge mechanisms to enable a cross folding mechanism to configure the device to multiple configurations using only simple hinges. An embodiment of the device further unfolds to a fully flat configuration supported by interspersed feet. Keys of reduced aspect ratio can reduce the footprint of a folded device without reducing the key's sideways spacing. A rotating input pad can supplement the keyboard input without increasing the footprint of the folded pocket sized configuration.

Classifications:

International (IPC 8-9): G06F1/16 G06F3/02

H04B1/38 (Advanced/Invention);

H04M1/00 (Advanced/Non-invention);

G06F1/16 G06F3/02 H04B1/38 (Core/Invention);

H04M1/00 (Core/Non-invention)

CPC: G06F1/1641 G06F1/1615 G06F1/1616 G06F1/1622 G06F1/165

G06F1/1652 G06F1/1666 G06F1/1679 G06F1/1683 G06F1/169

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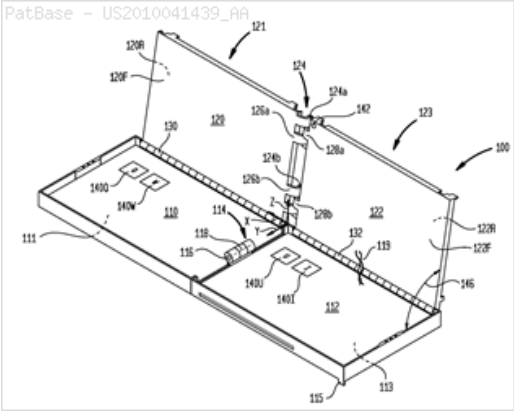
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G06F1/16P9M8 G06F1/16P9P6

US: 345/1.1 345/1.3 361/679.04 361/679.15 361/679.150S

361/679.27 361/679.270S 40/729 40/733 455/566 455/566P

455/575.3 455/575.300S



Family:

Publication number	Publication date	Application number	Application date
US2010041439 AA	20100218	US20080190720	20080813
US8539705 BB	20130924	US20080190720	20080813
WO10019466 A1	20100218	WO2009US53125	20090807

Priority:

US20080190720 20080813

Probable Assignee: BULLISTER EDWARD

Assignee(s): (std): BULLISTER EDWARD

Inventor(s): (std): BULLISTER EDWARD

Agent(s): EDWARD BULLISTER

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: LOCAL ADVERTISING CONTENT ON AN INTERACTIVE HEAD-MOUNTED EYEPIECE

Abstract: Source: US2011213664A This disclosure concerns an interactive head-mounted eyepiece including an optical assembly through which the user views a surrounding environment and displayed content. The displayed content includes a local advertisement, wherein the location of the eyepiece is determined by an integrated location sensor and wherein the local advertisement has a relevance to the location of the eyepiece. The head mounted eyepiece may also include an audio device and the displayed content may comprise local advertisements and audio.

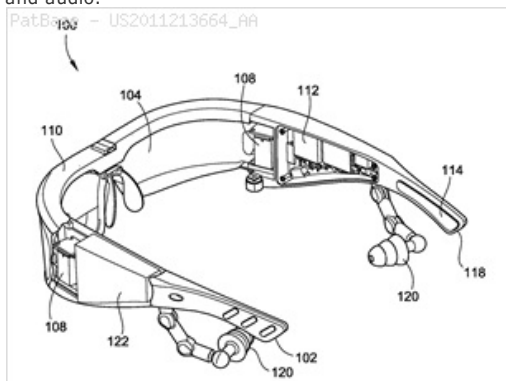
Classifications:

International (IPC 8-9): G01C21/00 G02B27/00 G02B27/01 G02B27/02 G02B27/14 G02B5/18 G02B5/23 G02B5/30 G02B6/00 G02B7/00 G02C11/00 G02C11/04 G02C7/00 G02F1/1335 G02F1/13357 G03B21/26 G03H1/00 G06F1/16 G06F13/00 G06F17/00 G06F17/30 G06F3/00 G06F3/01 G06F3/03 G06F3/033 G06F3/0346 G06F3/041 G06F3/048 G06F3/0488 G06K9/00 G06Q30/00 G06Q30/02 G06Q30/04 G06T15/00 G06T19/00 G09G5/00 G09G5/02 G09G5/10 G09G5/377 G10L19/00 H04N5/225 H04N5/232 H04N5/44 H04N5/64 H04N7/15 H04N7/18 (Advanced/Invention); A61B3/113 F21V8/00 G02B27/00 G02B27/01 G02B5/18 G02B5/30 G02B6/12 G03H1/22 G06F3/00 G06F3/01 G06T19/00 H04N13/04 H04N7/14 (Advanced/Non-invention)

CPC: G02B27/1066 G02B27/281 H04N7/15 G01C21/3629 G02B27/0149 G02B2027/0132 G02B2027/0123 G02B2027/0127 G02B2027/0134 G02B5/3058 G02C5/143 G02B6/0011 G02C7/08 G02C9/00 G06F3/012 G06F3/014 G06F21/32 G02B6/12019 A61B3/113 G02B2027/0112 G02B2207/113 G02B2207/115 H04N7/142 H04N13/0468 G06F1/1673 G06Q30/0261 G02B5/23 G02B7/008 G03H1/2294 G02C7/086 G02B2027/0147 G06F3/0481 G06F3/14 G02B5/30 G02B27/0176 G02B6/0038 G02B6/0045 G02B6/0053 G02B6/0056 G02B6/12009 G06F3/0227 G06F3/04815 G06F13/00 G06Q50/26 G06F3/167 G02B2027/011 G02B6/00 G02B27/0172 G05D1/0016 G06F3/165 G06F3/03547 G06F3/04842 G02B5/1842 G06F3/016 G06K9/00604 G06K9/00617 H04N5/44 H04N5/23293 H04N5/2254 G02C11/10 G06K9/00255 G06K9/00671 G06F3/0304 G06F3/0428 G06F2203/0331 G06F2203/0338 G02B2027/0138 G02B2027/0187 G02B27/017 G02B27/0093 G02B2027/014 G02B2027/0178 G06F1/163 G06F3/005 G06F3/011 G06F3/013 G06Q30/02 H04R3/005 G02B5/04 G02B5/18 G02B5/28 G02B2027/0118 G06F3/0346 G06T19/006 G06F3/017 G06F3/0488 G06F3/0233 G06F3/0236

European: G01C21/36G1 G02B27/00T G02B27/01B G02B27/01C G02B27/01C1 G02B27/01C2 G02B27/10K G02B27/28A G02B5/23 G02B7/00T G02C11/04 G02C7/08 G02C7/08N G02C9/00 G05D1/00C1 G06F1/16P5 G06F1/16P9K12 G06F3/00B6 G06F3/01B G06F3/01B4 G06F3/01G G06Q30/02 G06Q30/0261 S02B27/00T S02B27/01A10 S02B27/01A11 S02B27/01A15 S02B27/01A2 S02B27/01A3 S02B27/01A4 S02B27/01A5 S02B27/01A6 S02B27/01A9 S02B27/01A9A S02B27/01C3 S02B27/01D4 S02B5/18 S02B5/30 S02B5/30P2 S02B6/00 S02B6/00L6 S02B6/12M2

US: 1/1 345/156 345/156P 345/156S 345/158 345/158P 345/419 345/419P 345/589 345/589P 345/617 345/617S 345/633 345/633P 345/633S 345/690 345/690P 345/7 345/8 345/8P 345/8S 348/14.08 348/143 348/143P 348/158 348/78 348/E7.085 348/E70.85S 353/28 359/13 359/554 359/554S 359/567 359/630 382/115 382/115S 382/117 382/117S 382/118 382/118P 463/30 463/36 463/42 701/491 704/201 704/201S 704/E19.001 704/E19.001S 705/14.58 705/14.580P 705/14.580S 715/702 715/702P 715/773 715/773P



Family:

Publication number	Publication date	Application number	Application date
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Priority:

US20100308973P 20100228

US20100373791P 20100813

US20100410983P 20101108

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Probable Assignee: MICROSOFT TECHNOLOGY LICENSING LLC

Assignee(s): (std): BIETRY JOSEPH ; BORDER JOHN N ; CELLA CHARLES ; HADDICK JOHN D ; KING III ROBERT W ; KING ROBERT W ; OSTERHOUT GROUP INC ; LOHSE ROBERT MICHAEL ; OSTERHOUT RALPH F ; MILLER GREGORY D ; NORTRUP ROBERT J ; NORTRUP EDWARD H ; MICROSOFT CORP ; MICROSOFT TECHNOLOGY LICENSING LLC ; MICROSOFT TECH LICENSING LLC ; WILDER KELLIE A ; POLINKO NICHOLAS R ; STOVALL ROSS W

Assignee(s): MICROSOFT CORPONE MICROSOFT WAYREDMONDWA98052-6399US ; OSTERHOUT GROUP INC153 TOWNSEND STREETSUITE 570SAN FRANCISCOCA94107US

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Inventor(s): BIETRY JOSEPHUS ; BORDER JOHN NUS ; HADDICK JOHN DUS ; LOHSE ROBERT MICHAELUS

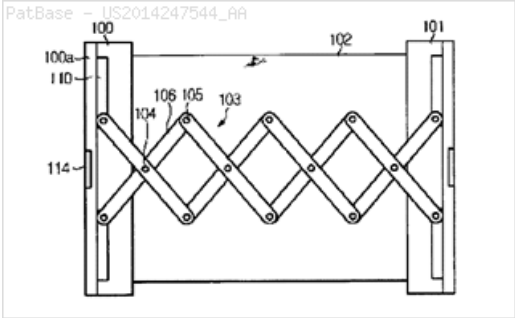
Agent(s): A J PARK; AJ PARK; BORDEN LADNER GERVAIS LLP; SMART AND BIGGAR; FINDLAY ALICE ROSEMARY; FISCHER MICHAEL MARIA; YAMAMOTO OSAMU; TAKEUCHI SHIGEO; ONO SHINJIRO; KOBAYASHI YASUSHI; NAKANISHI MOTOHARU; NAKAMURA SHOGO; GTC LAW GROUP LLP AND AFFILIATES; RACHAEL; MICKY; JIM; LEONARD; JEREMY; JUDY; MICAH; ALLEMAN HALL CREASMAN AND TUTTLE LLP; OKEY DAVID W

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: ROLL-TYPE FLEXIBLE DEVICE FOR DISPLAYING

Abstract: Source: US2014247544A The present invention discloses a roll-type flexible device for displaying, comprising: a body housing in which a **flexible display** portion is accommodated so as to be wound and unwound; a length adjusting member, which is mounted on the body housing for maintaining the **flexible display** portion in an unrolled state, and which has an extendable structure by being linked to the unwinding of the **flexible display** portion; and a fixing member for fixing the extended length of the length adjusting member.

Classifications:
International (IPC 8-9): G06F1/16 G09F11/18 G09F11/29 G09F15/00 G09F9/00 G09F9/30 H05K5/00 H05K5/02 (Advanced/Invention)
CPC: G09F11/29 G09F15/0062 H05K5/0017 H05K5/0226 G09F9/00 G06F1/16 G06F1/1652 G09F11/18
European: G09F11/18 G09F11/29
US: 361/679.01



Family:

Publication number	Publication date	Application number	Application date
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US2014247544 AA	20140904	US20110348617	20110810
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Priority:

KR20100077078 20100810 KR20110077320 20110803 WO2011KR05839 20110810

Probable Assignee: RYU SANG KYU

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Inventor(s): (std): RYU SANG KYU

Agent(s): MITTLER ENRICO; HAMADA HARUO

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: LIGHT COUPLING INTO ILLUMINATED FILMS

Abstract: Source: US2010214786A A flexible translucent sheet is folded to have portions of its bounding edge closely situated in overlapping relationship, and these overlapping portions are illuminated by a light source. The illumination is transmitted through the interior of the sheet to any adjacent unfolded area of the sheet, which may bear emission areas which are treated so that the light emits from the sheet at these areas. Preferred versions of the invention have a series of legs cut into one edge of the sheet, and the legs are then bundled in stacked relationship, with a light source providing light input into the bundle.

Classifications:

International (IPC 8-9): A61P19/06 B23P11/00 B23P19/04 B29C45/14 B29D11/00 B64C25/04 F21K9/232 F21K9/61 F21K9/65 F21S2/00 F21S8/00 F21V14/00 F21V14/06 F21V21/00 F21V21/14 F21V3/04 F21V7/00 F21V7/04 F21V7/22 F21V8/00 G01D11/28 G02B26/08 G02B6/00 G02B6/036 G02B6/10 G02B6/122 G02B6/26 G02B6/30 G02B6/42 G02F1/00 G02F1/13357 G09F13/00 G09F13/04 G09F13/18 G09F9/00 G09F9/30 H01J9/24

H05B37/02 (Advanced/Invention);

B29C45/14 B29D11/00 F21K9/232 F21K9/61 F21K9/65 F21V14/02 F21V8/00 F21Y101/00 F21Y101/02 F21Y103/00 F21Y105/00 G02B27/01 G02F1/1335 G09F13/18 (Advanced/Non-invention); B29C45/14 B29D11/00 F21V3/00 F21V7/00 F21V8/00 (Core/Invention)

CPC: Y10S362/812 G02B6/0073 A61K31/52 G02B6/0011 A61K31/495 A61K31/519 G02B27/0172 G02B6/0053 G02B6/0061 Y10T29/49888 Y10T156/1051 Y10T29/49002 G02B6/0036 G02B6/0078 G02B6/0085 G02B27/017 G02B6/0013 G02B6/0075 F21V14/02 G02B6/0028 G02B6/0081 G02B6/0095 G02B6/0018 G02B6/002 G02B6/003 G02B6/005 G02B6/0065 G02B6/0068 G02B6/0076 G02B6/0088 G02B27/0101 G02F2001/133616 G09F13/18 Y10T29/49826 G02B6/0015 F21K9/232 F21K9/61 F21K9/65 G02B6/0043 G02B6/006 G02B6/0058

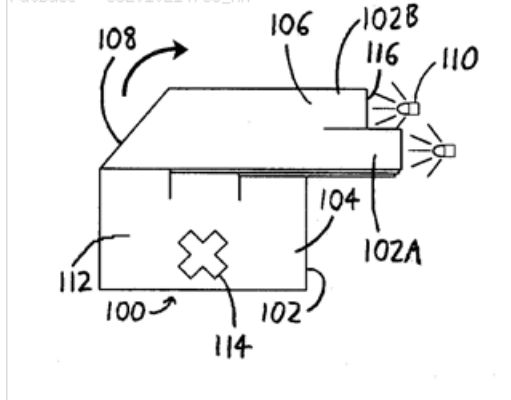
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US: 1/1 156/227 29/428 29/428S 29/460 29/460S 29/592.1 315/158 315/158P 315/312 315/312S 349/144 349/158 349/187 349/61 349/62 349/63 362/296.01 362/296.010P 362/311.01 362/311.02 362/311.03 362/311.030S 362/551 362/560 362/560P 362/600 362/603 362/603S 362/606 362/606P 362/607 362/607P 362/610 362/611 362/612 362/613 362/613S 362/616 362/618 362/621 362/623 362/627 362/812 362/92 385/11 385/116 385/129 385/131 385/31 385/39 385/43 40/541 40/541P 40/546 40/546P 438/30 438/31 445/24 445/24S

Family:

Publication number	Publication date	Application number	Application date
AU2012225244 AA	20120913	AU20120225244	20120309
CA2796515 AA	20121015	CA20112796515	20110415
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CA2796519 AA	20121015	CA20112796519	20110415
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CN103038568 A	20130410	CN201180027447	20110415
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EP2197649 A4	20121017	EP20080838526	20081007
EP2197649 B1	20170510	EP20080838526	20081007
EP2558775 A2	20130220	EP20110769729	20110415
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EP2558776 A4	20140521	EP20110769731	20110415
EP2558893 A2	20130220	EP20110769732	20110415
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EP2683980 A1	20140115	EP20120754909	20120309
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PatBase - US2010214786_AA



US2011273906 AA	20111110	US20110088167	20110415
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Priority:

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Probable Assignee: FLEX LIGHTING II LLC

Assignee(s): (std): COLEMAN ZANE ; FLEX LIGHTING II LLC ; COLEMAN ZANE ARTHUR ; COLEMAN ZANE A ; LYMAN SCOTT ; ELDER JENNA ; FLYNT AMY ; HOLLISTER ALAN ; ANTHONY J NICHOL ; BANTIA SHANTA ; BIOCRYST PHARM INC ; FLEX LIGHTING LL LLC ; NICHOL ANTHONY J ; NICHOL ANTHONY JOHN ; PUCYLOWSKI SHAWN MICHAEL ; WAUGH ANITA ; SHERIDAN WILLIAM P ; PUCYLOWSKI SHAWN

Assignee(s): BIOCRYST PHARMACEUTICALS INC

Inventor(s): (std): ANTHONY J NICHOL ; BANTIA SHANTA ; COLEMAN ZANE ARTHUR ; ELDER JENNA ; FLYNT AMY ; HOLLISTER ALAN ; LYMAN SCOTT ; NICHOL ANTHONY JOHN ; SHERIDAN WILLIAM P ; WAUGH ANITA ; PUCYLOWSKI SHAWN MICHAEL ; PUCYLOWSKI SHAWN ; NICHOL ANTHONY ; COLEMAN ZANE A ; COLEMAN ZANE ; NICHOL ANTHONY J

Agent(s): BALDWIN'S INTELLECTUAL PROPERTY; OSLER HOSKIN AND HARCOURT LLP; GOWLING LAFLEUR HENDERSON LLP; EXELL JONATHAN MARK; SCHMID NILS TF; Lane Cathal Michael; LANE CATHAL MICHAEL; OHNUKI SHINSUKE; ITOH TADAHICO; ITOH TADASHIGE; INTELLECTUAL PROPERTY DEPT DEWITT ROSS AND STEVENS SC; SCHIFF HARDIN LLP; QUARLES AND BRADY LLP; ZANE; FIESCHKO CRAIG A; KRISCHKE ERIC T; LOVE JANE M ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY NZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: ELECTRONIC DEVICE COMPRISING A FLEXIBLE DISPLAY WITH EDGE PROTECTORS

Abstract: Source: US2010246113A The invention relates to an electronic device 60 comprising a flexible display arranged to be alternated between a collapsed state and an extended state, said flexible display comprising edge portions, the flexible display being further provided with an edge protector cooperating with the edge portions, wherein the edge protector is conceived to be alternated between a collapsed state and an extended state. In the electronic device 60a the flexible display 65 is conceived to be wound about a roller 61. The edge protector comprises rigid segments 63a, 63b, 63c, 62a, 62b, 62c, 62c interconnected by suitable means 64a, 64b, 64c. Wiring, pins, bars may be used for interconnecting means 64a, 64b, 64c. In the embodiment 60a an extended position of the edge protector is shown. In the embodiment 60b a collapsed state of the edge protector is shown comprising aggregations of segments 62', 62?. The bars 64a, 64b, 64c partly protect the back surface of the display. The invention further relates to the electronic device comprising a flexible display wherein the flexible display is provided with an edge protector attached at least partially to the edge portions of the flexible display.

Classifications:

International (IPC 8-9): G02F1/1333 G06F1/00 G06F1/16 G09F11/08

G09F9/00 G09F9/30 H04M1/00 H05K5/00

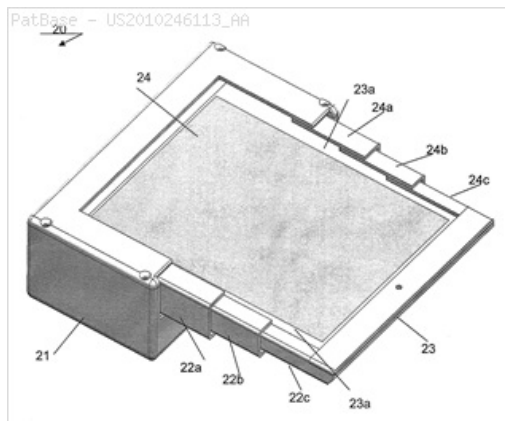
H05K7/00 (Advanced/Invention);

G02F1/13 G06F1/00 G06F1/16 G09F9/00 G09F9/30 (Core/Invention)

CPC: G09F9/301 G06F1/1601 H04M1/0268 G06F1/16

European: G06F1/16D T04M1/02A14D2

US: 361/679.05 361/679.06 361/679.27 361/679.3 361/679.300P 455/575.3



Family:

Publication number	Publication date	Application number	Application date
CN101689066 A	20100331	CN200880021833	20080425
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Priority:

US20070913952P 20070425

US20080597301 20080425

WO2008NL50248 20080425

Probable Assignee: SAMSUNG ELECTRONICS CO LTD

Assignee(s): (std): BEMELMANS DAVID JOHANNES ELISA ; BEMELMANS DAVID JOHANNES ELISABETH ; CREATOR TECHNOLOGY BV ; HAMERS JOHANNES CORNELIS ADRIA ; HAMERS JOHANNES CORNELIS ADRIAAN ; VISSER HENDRIK DIRK ; POLYMER VISION LTD ; WALTERS MICHAEL JOHANNES ANNA MARIA ; WALTERS MICHAEL JOHANNES ANNA

Assignee(s): SAMSUNG ELECTRONICS CO LTD ; POLYMER VISION LIMITED

Inventor(s): (std): DIRK VISSER HENDRIK ; ELISABETH BEMELMANS DAVID JOHANNES ; HAMERS JOHANNES CORNELIS ADRIAAN ; ADRIAAN HAMERS JOHANNES CORNELIS ; BEMELMANS DAVID JOHANNES ELISABETH ; MARIA WALTERS MICHAEL JOHANNES ANNA ; VISSER HENDRIK DIRK ; WALTERS MICHAEL JOHANNES ANNA MARIA

Agent(s): HATZMANN MARTIN; LEYDIG VOIT AND MAYER LTD; HATZMANN MJ

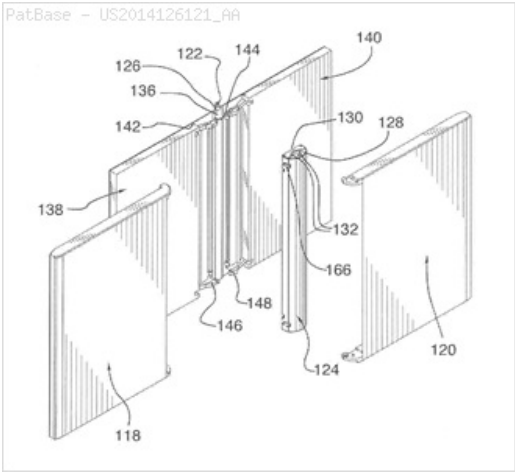
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Title: SUPPORT FOR A FLEXIBLE DISPLAY

Abstract: Source: US2014126121A A device includes: a first component and a second component coupled to one another by a pivot member and being movable relative to one another between an open position in which the first component and the second component are in the same plane and a folded position; a first slider coupled to the first component and a second slider coupled to the second component; and a flexible membrane coupled to the first slider and the second slider, the flexible membrane being exposed in the folded position; wherein the first component and the second component are coupled to one another to maintain the flexible membrane at a constant length when the flexible membrane is moved between the open position and the folded position.

Classifications:

International (IPC 8-9): G06F1/16 H04M1/02
H05K7/00 (Advanced/Invention)
CPC: G06F1/1652 G06F1/1616 H04M1/0216 H04M1/0235
H04M1/0268 Y10T16/554
US: 16/382 345/173 361/679.01 361/679.21 435/440



Family:

Publication number	Publication date	Application number	Application date
US2014126121 AA	20140508	US20120667780	20121102
US9013864 BB	20150421	US20120667780	20121102

Priority:

US20120667780 20121102

Probable Assignee: BLACKBERRY LTD

Assignee(s): (std): BLACKBERRY LTD ; RESEARCH IN MOTION LTD

Assignee(s): THEREFORE LTD

Inventor(s): (std): GRIFFIN JASON TYLER ; KAYSER DANIEL JORDAN ; RIDDIFORD MARTIN PHILIP

Agent(s): FISH AND RICHARDSON PC

Title: SUPPORT FOR A FLEXIBLE DISPLAY

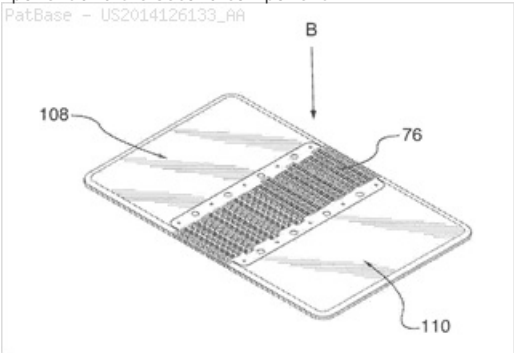
Abstract: Source: US2014126133A A device includes: a housing having a first component and a second component coupled to one another by a pivot member and movable relative to one another between an open position in which the first component and the second component are in the same plane and a folded position; a first slider slidably received in the first component and a second slider slidably received in the second component, the first slider and the second slider being movable toward the pivot member when the first component and the second component move from the open position to the folded position; and a flexible membrane coupled to the first slider, the second slider and the pivot member; wherein, in the folded position, the flexible membrane is located between the first component and the second component.

Classifications:

International (IPC 8-9): G06F1/16 H05K5/02 (Advanced/Invention)

CPC: G06F1/1616 G06F1/1652

US: 312/326 345/156 361/679.01 361/679.27 361/679.3



Family:

Publication number	Publication date	Application number	Application date
US2014126133 AA	20140508	US20120667762	20121102
US8971032 BB	20150303	US20120667762	20121102

Priority:

US20120667762 20121102

Probable Assignee: BLACKBERRY LTD

Assignee(s): (std): BLACKBERRY LTD ; RESEARCH IN MOTION LTD

Assignee(s): THEREFORE LTD

Inventor(s): (std): GRIFFIN JASON TYLER ; KAYSER DANIEL JORDAN ; RIDDIFORD MARTIN PHILIP

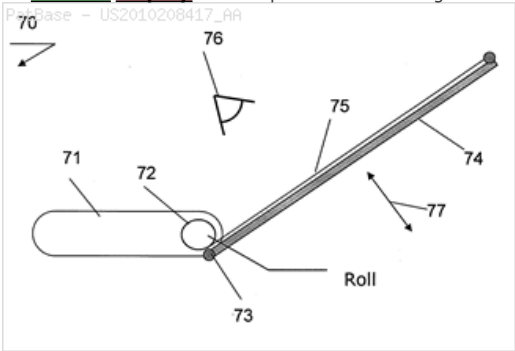
Agent(s): HANLEY FLIGHT AND ZIMMERMAN LLC

Title: ELECTRONIC DEVICE WITH A VARIABLE ANGULATION OF A FLEXIBLE DISPLAY

Abstract: Source: US2010208417A An electronic device is disclosed that comprises a housing 81 and a flexible display, which may have respective portions 82a, 82b, 82c and 82d. The portions may be accommodated between respective hinges 84a, 84b, 84c, 84d, which are arranged as a mechanism for enabling a transition between the first mechanically stable position and a second mechanically stable position. The display is viewed from a direction 85. The hinges are operated independently from each other, enabling a plurality of angulations of the flexible display with respect to the housing 81.

Classifications:

International (IPC 8-9): F16C11/10 F16C11/12 G06F1/16 G09F9/00 G09F9/30 H04B1/38 H04M1/02 H05K7/00 (Advanced/Invention); H04B1/38 H04M1/02 (Advanced/Non-invention); H04B1/38 H04M1/02 (Core/Invention)
International (IPC 1-7): G06F1/16
CPC: H04M1/0268 G06F1/1613 G06F1/1615 G06F1/1641 G06F1/1652 G06F1/1656 G06F1/1679 G06F1/1681 H04M1/0214 H04M1/0241 H04M1/0247 H04M2250/16 H04M2250/22
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US: 340/815.83 349/84 361/21 361/679.01 361/679.010P 361/679.3 361/679.55 361/679.56



Family:

Publication number	Publication date	Application number	Application date
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CN101772943 B	20130710	CN200880102147	20080616
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JP2010530553 T2	20100909	JP20100512101T	20080616
KR101492852 B1	20150212	KR20107000853	20080616
KR20100049016 A	20100511	KR20107000853	20080616
TW200919398 A	20090501	TW20080122154	20080613
TWI413037 B	20131021	TW20080122154	20080613
US2010208417 AA	20100819	US20080664805	20080616
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Priority:

US20070944346P 20070615 US20080664805 20080616 WO2008NL50389 20080616

Probable Assignee: SAMSUNG ELECTRONICS CO LTD

Assignee(s): (std): BEMELMANS DAVID JOHANNES ELISA ; BEMELMANS DAVID JOHANNES ELISABETH ; CREATOR TECHNOLOGY BV ; WALTERS MICHAEL JOHANNES ANNA MARIA ; WALTERS MICHAEL JOHANNES ANNA ; VISSER HENDRIK DIRK ; POLYMER VISION LTD

Assignee(s): SAMSUNG ELECTRONICS CO LTD ; POLYMER VISION LIMITED

Inventor(s): (std): DIRK VISSER HENDRIK ; ELISABRTH BEMELMANS DAVID JOHANNES ; MARIA WALTERS MICHAEL JOHANNES ANNA ; VISSER HENDRIK DIRK ; BEMELMANS DAVID JOHANNES ELISABETH ; BEMELMANS DAVID JOHANNES ELISABRTH ; WALTERS MICHAEL JOHANNES ANNA ; WALTERS MICHAEL JOHANNES ANNA MARIA

Agent(s): HATZMANN MARTIN; LEYDIG VOIT AND MAYER LTD; HATZMANN M J; HATZMANN MJ

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: MOBILE STATION

Abstract: Source: US2005054395A A novel folding design for a mobile station is disclosed that provides a stylish design, a simplified assembly, and relatively few parts. The improved foldable mobile station comprises a flexible front cover, multiple functional units coupled together by a folding hinge and a tension unit. The tension unit provides a compressive force to the pivotally attached functional units thereby biasing the foldable mobile station between open and folded positions.

Classifications:

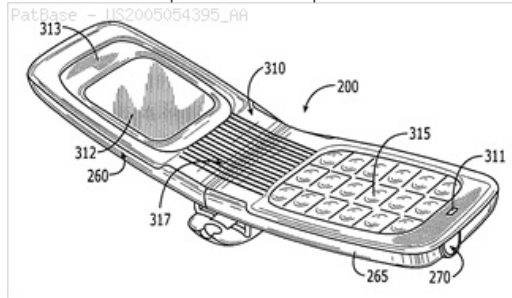
International (IPC 8-9): G06F1/16 H04M1/00 H04M1/02 H04M1/04 H05K5/00 H05K7/20 (Advanced/Invention); H04Q (Subclass/Invention)

International (IPC 1-7): H04M1/00 H04M1/02 H04Q0/00

CPC: H04M1/022 H04M1/04

European: H04M1/02A2B4F2 H04M1/04

US: 361/679.3 361/679.55 361/680 361/681 455/575.1 455/575.100S 455/575.3 455/575.300P



Family:

Publication number	Publication date	Application number	Application date
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TW200516947 A	20050516	TW20040120753	20040712
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US2005054395 AA	20050310	US20040887796	20040709
US7050293 BB	20060523	US20040887796	20040709
WO05009055 A2	20050127	WO2004US22012	20040709
WO05009055 A3	20051103	WO2004US22012	20040709

Priority:

US20030485872 20030710 US20030485872P 20030710 US20040887796 20040709
WO2004US22012 20040709

Probable Assignee: NOKIA CORP

Assignee(s): (std): NOKIA CORP

Assignee(s): NOKIA KORPOREJSHN

Inventor(s): (std): ARBISI TOM ; KNUDSEN PETER B ; KNUDSEN PETER BACK ; KNUDSEN PETER BEHK ; ATLE ARBISI TOM PONTOPPIDAN MO ; ATLE MESSEL ; MESSEL ATLE ; MORTEN PONTOPPIDAN ; PONTOPPIDAN MORTEN ; TOM ARBISI

Inventor(s): PETER BACK KNUDSEN ; MESSEL' ATLE ; KNUDSEN PETER ; MESSEL ALTE ; ARBISI TOM PONTOPPIDAN MORTEN KNUDSEN PETER B ; ARBISI TOM PONTOPPIDAN MORTEN KNUDSEN PETER B MESS

Agent(s): ALSTON AND BIRD LLP BANK OF AMERICA PLAZA; ALSTON AND BIRD LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

Title: INPUT DETECTION SYSTEM FOR A PORTABLE ELECTRONIC DEVICE

Abstract: Source: US2008074400A A proximity input detection system for an electronic device. In one embodiment, the present invention utilizes an inductive field sensor to detect a change in a magnetic field when an input device with a coil is within a threshold distance. In another embodiment, the present invention utilizes a capacitive sensor which can locate the position of an electrically conductive object which is within a threshold distance. The capacitive sensor can also be used, for example, as a switch to activate the device if a user picks it up. The present invention allows user inputs to be detected without actually touching the electronic device. The present invention can also be used to detect inputs through intervening non-metallic layers such as a protective cover or another display of the device without using additional input sensors.

Classifications:

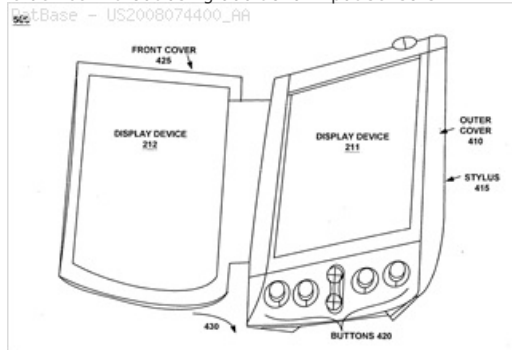
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International (IPC 1-7): G06F1/16

CPC: G06F1/1643 G06F3/0416 Y10S345/901 G06F1/1698 G06F1/1622 G06F1/1626 G06F1/1641 G06F1/1647 G06F1/1656 G06F1/1677 G06F3/0412 G06F3/045 G06F2200/1632

European: G06F1/16P1R G06F1/16P3 G06F1/16P9D2 G06F1/16P9D5 G06F1/16P9E G06F1/16P9M2 G06F1/16P9P9 G06F3/041D G06F3/045 S06F200/1632

US: 178/18.01 178/18.03 178/18.05 178/18.06 178/18.07 345/1.1 345/1.100P 345/1.2 345/11 345/12 345/156 345/156S 345/157 345/173 345/173P 345/173S 345/174 345/174P 345/178 345/2.2 345/22 345/5 345/87 345/901 361/681

**Family:**

Publication number	Publication date	Application number	Application date
AU2002227042 AA	20020611	AU20020227042	20011128
AU200227042 A1	20020611	AU20020027042	20011128
AU200227042 A5	20020611	AU20020027042	20011128
EP1348154 A1	20031001	EP20010996003	20011128
US2008074400 AA	20080327	US20070986514	20071120
US2008117184 AA	20080522	US20080019506	20080124
US2008129647 AA	20080605	US20070879666	20070717
US2010045628 AA	20100225	US20090612140	20091104
US2010045633 AA	20100225	US20090612115	20091104
US7289083 BA	20071030	US20000728023	20001130
US7324093 BA	20080129	US20010773136	20010130
US7688315 BA	20100330	US20010991344	20011120
US9489018 BB	20161108	US20090612115	20091104
WO0244878 A1	20020606	WO2001US44861	20011128
WO0244878 C2	20020725	WO2001US44861	20011128

Priority:

US20000728023	20001130	US20010773136	20010130	US20070986514	20071120
US20080019506	20080124	US20070879666	20070717	US20010991344	20011120
US20090612115	20091104	US20090612140	20091104	WO2001US44861	20011128

Probable Assignee: QUALCOMM INC

Assignee(s): (std): GETTEMY SHAWN R ; PALM INC ; QUALCOMM INC ; WONG YOON KEAN

Assignee(s): PALM INC ; HEWLETT PACKARD DEVELOPMENT CO LP ; JPMORGAN CHASE BANK NA ; JPMORGAN CHASE BANK NA ADMINISTRATIVE AGENT AS

Inventor(s): (std): CANOVA JR FRANCIS ; WONG YOON KEAN ; WONG YOON K ; GETTEMY SHAWN R ; GETTEMY SHAWN ; CANOVA JR FRANCIS JAMES ; CANOVA FRANCIS

Inventor(s): CANOVA JR ; WONG YOON ; JR FRANCIS CANOVA

Agent(s): PALM C O MURABITO HAO AND BARNES LLP; KILPATRICK TOWNSEND AND STOCKTON LLP

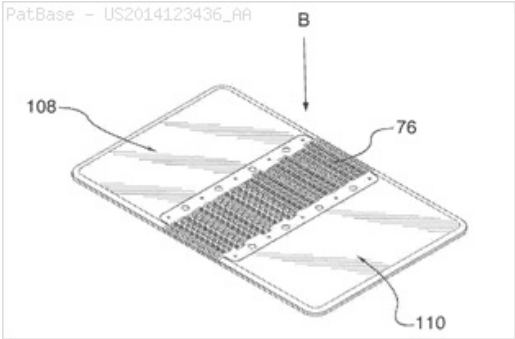
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Title: SUPPORT FOR A FLEXIBLE DISPLAY

Abstract: Source: US2014123436A A support for a flexible display of a portable electronic device includes: a first hinge element coupled to a second hinge element in a side-by-side arrangement, the first hinge element having: a display-receiving surface extending at least partway along a length of the first hinge element, the display-receiving surface for coupling to the flexible display; and a guide coupling the first hinge element to the second hinge element and guiding movement of the second hinge element relative to the first hinge element along a path between a first stop and a second stop, the first stop for limiting movement in a first direction and the second stop for limiting movement in a second direction; a neutral plane associated with movement of the first hinge element relative to the second hinge element is external to the support and located adjacent to the display-receiving surface.

Classifications:

International (IPC 8-9): F16C 11/04 (Advanced/Invention)
CPC: H04M1/0216 H04M1/022 H04M1/0268 G06F1/1615 G06F1/1616 G06F1/1652 G06F1/1681 Y10T16/52
US: 16/221



Family:

Publication number	Publication date	Application number	Application date
US2014123436 AA	20140508	US20120667719	20121102

Priority:

US20120667719 20121102

Probable Assignee: BLACKBERRY LTD

Assignee(s): (std): RESEARCH IN MOTION LTD

Assignee(s): THEREFORE LTD ; BLACKBERRY LTD

Inventor(s): (std): ALLWRIGHT JULIA ; GRIFFIN JASON TYLER ; RIDDIFORD MARTIN PHILIP

Title: FOLDER-TYPE PORTABLE COMMUNICATION DEVICE HAVING **FLEXIBLE DISPLAY** UNIT

Abstract: Source: US2008167095A A portable communication device includes a main housing, a folding housing coupled to the main housing by a hinge unit to rotate about a hinge axis, and a **flexible display** unit that is drawn out from the main housing to open its display screen when the folding housing unfolds.

Classifications:

International (IPC 8-9): H04B1/38 H04M1/02 (Advanced/Invention);

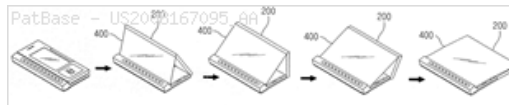
H04B1/38 (Advanced/Non-invention);

H04B1/38 H04M1/02 (Core/Invention)

CPC: H04M1/0216 H04M1/0268

European: H04M1/02A14D2 H04M1/02A2B4F

US: 361/679.06 455/566 455/575.3 455/575.300P



Family:

Publication number	Publication date	Application number	Application date
CN101217579 A	20080709	CN200810001513	20080104
DE602008009688 D1	20111124	DE200860009688T	20080103
EP1942639 A2	20080709	EP20080000041	20080103
EP1942639 A3	20090624	EP20080000041	20080103
EP1942639 B1	20110914	EP20080000041	20080103
KR20080064424 A	20080709	KR20070001331	20070105
US2008167095 AA	20080710	US20070947467	20071129
US8229522 BB	20120724	US20070947467	20071129

Priority:

EP20080000041 20080103 KR20070001331 20070105

Probable Assignee: SAMSUNG ELECTRONICS CO LTD

Assignee(s): (std): KIM YUN SU ; PARK JUN SANG ; SAMSUNG ELECTRONICS CO LTD

Assignee(s): SAMSUNG ELECTRONICS CO LTD SUWON SI ; SAMSUNG ELECTRONICS CO

Inventor(s): (std): KIM YUN SU ; PARK JUN SANG

Agent(s): BOAKES JASON CARRINGTON; HC PARK AND ASSOCIATES PLC

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK TR

Title: FOLDABLE DISPLAY DEVICE

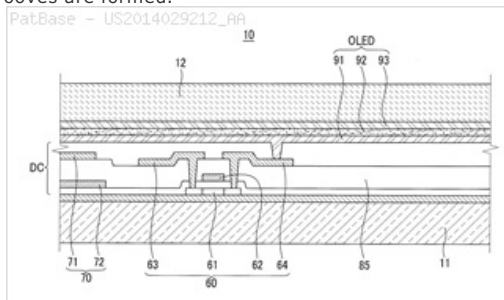
Abstract: Source: US2014029212A A foldable display device having an excellent folding characteristic without image quality deterioration on a folding portion is provided. The foldable display device includes a **flexible display** panel and a cover window positioned outside the **flexible display** panel and protecting the **flexible display** panel from an external impact, wherein the cover window includes a folding region where concave grooves are formed.

Classifications:

International (IPC 8-9): G06F1/16 G09F9/00 G09F9/33 H05K1/00 H05K1/02 H05K7/16 (Advanced/Invention)

CPC: H05K1/028 G09F9/33 H05K2201/10128 H05K2201/2009 G09F9/301

US: 361/749



Family:

Publication number	Publication date	Application number	Application date
CN103578356 A	20140212	CN201310110417	20130401
KR20140015881 A	20140207	KR20120081862	20120726
TW201405287 A	20140201	TW20130111813	20130402
TWI614593 B	20180211	TW20130111813	20130402
US2014029212 AA	20140130	US20130742668	20130116
US9615449 BB	20170404	US20130742668	20130116
US9655235 BB	20170516	US20130742668	20130116

Priority:

KR20120081862 20120726

Probable Assignee: SAMSUNG DISPLAY CO LTD

Assignee(s): (std): SAMSUNG DISPLAY CO LTD

Assignee(s): SAMSUNG DISPLAY CO

Inventor(s): (std): SEONG JIN HWANG ; SANG GU KIM ; KWAN YOUNG HAN ; KIM SANG GU ; HWANG SEONG JIN ; HAN KWAN YOUNG

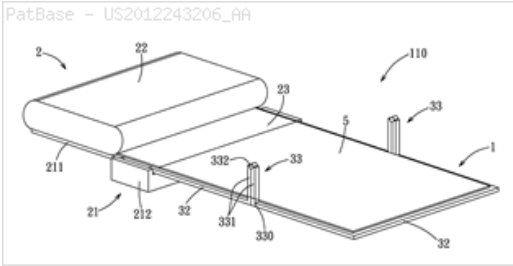
Agent(s): ROBERT E

Title: DISPLAY AND ELECTRONIC DEVICE HAVING THE SAME

Abstract: Source: US2012243206A A display includes an outer casing, two backlight modules, and a flexible display panel. The outer casing includes at least one connecting member having two connecting ends respectively disposed at left and right sides thereof, and two casing panels connected respectively to the connecting ends and respectively having bonding faces. The two backlight modules are disposed respectively on the bonding faces of the casing panels. The flexible display panel includes two side panel sections disposed respectively on the backlight modules, and a foldable intermediate section connected between the side panel sections. The casing panels are pivotal relative to each other to move the backlight modules and the flexible display panel to an unfolded position. The backlight modules coplanarly cover a backside of the flexible display panel in the unfolded position.

Classifications:

International (IPC 8-9): F21V7/18 G02F1/133 G09F13/04 G09F9/00 (Advanced/Invention)
CPC: G09F9/301 G09F9/30 G06F1/1652
European: G09F9/30
US: 349/61 362/616 362/632 362/97.1 362/97.2 362/97.4 40/541



Family:

Publication number	Publication date	Application number	Application date
TW201239459 A	20121001	TW20110109531	20110321
TWI449991 B	20140821	TW20110109531	20110321
US2012243206 AA	20120927	US20110334947	20111222
US8662731 BB	20140304	US20110334947	20111222

Priority:

TW20110109531 20110321

Probable Assignee: WISTRON CORP

Assignee(s): (std): CHANG CHIH HAO ; HU TARNG SHIANG ; PENG YU JUNG ; WANG YI KAI ; WISTRON CORP ; YANG TSUNG HUA

Inventor(s): (std): CHANG CHIH HAO ; HU TARNG SHIANG ; PENG YU JUNG ; WANG YI KAI ; YANG TSUNG HUA

Agent(s): STEPTOE AND JOHNSON LLP

Title: FOLDABLE DISPLAY DEVICE

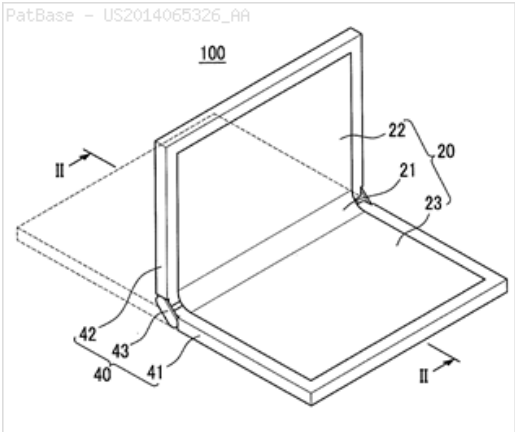
Abstract: Source: US2014065326A A foldable display device includes a flexible display panel and a cover window on an outside of the flexible display panel. The cover window includes a foldable region between plane regions that are on opposite sides of the cover window, and the plane regions have a first hardness and the foldable region has a second hardness that is smaller than the first hardness.

Classifications:

International (IPC 8-9): A45B19/00 B32B7/02 G02F1/1333 G06F1/16 G09F9/00 G09F9/30 H05K7/00 (Advanced/Invention); H01L27/32 H01L51/00 (Advanced/Non-invention)

CPC: G06F1/16 G02F1/133305 G06F1/1652 G09F9/301 H01L27/3244 H01L51/0097 H01L2251/5338

US: 1/1 428/12



Family:

Publication number	Publication date	Application number	Application date
KR20140033546 A	20140319	KR20120094333	20120828
US2014065326 AA	20140306	US20130836069	20130315
US9069521 BB	20150630	US20130836069	20130315

Priority:

KR20120094333 20120828

Probable Assignee: SAMSUNG DISPLAY CO LTD

Assignee(s): (std): HIRAI AKIRA ; JUNG TAE HYEOG ; KIM HAK SUN ; LEE KYU TAEK ; SAMSUNG DISPLAY CO LTD

Assignee(s): SAMSUNG DISPLAY CO

Inventor(s): (std): HIRAI AKIRA ; JUNG TAE HYEOG ; KIM HAK SUN ; LEE KYU TAEK

Agent(s): LEE AND MORSE PC

Title: SLIDE-OUT INFORMATION DISPLAY

Abstract: Source: US2008144265A Slide-out and roll-up information displays and methods supply enlarged viewing areas. A slide-out information display device includes stacked display segments wherein each of the display segments except one is at least partially covered by the others. Separable bezel segments support the display segments, the stacked display segments being uncovered when the bezel segments are separated from a collapsed configuration to an un-collapsed configuration for use by a user. A roll-up display device includes flexible display membranes. Scrolling assemblies in the roll-up display include rotatably mounted scrolling assembly mechanisms for rolling up the flexible display membranes. Some scrolling assemblies are movable and can be extended beyond the housing members. At least one display membrane being covered by at least one other display membrane when the movable scrolling assemblies are not extended, and the covered display membranes being uncovered when the movable scrolling assemblies are extended.

Classifications:

International (IPC 8-9): B23P11/00 G09G5/00 H05K5/00

H05K7/00 (Advanced/Invention);

H05K7/00 (Core/Invention)

CPC: Y10T29/49826 H04M1/0268 G06F1/1601 G06F1/1615

G06F1/1616 G06F1/1624 G06F1/1641 G06F1/1652 G06F1/1656

G06F2200/1612 H04M1/0235 H04M2250/16

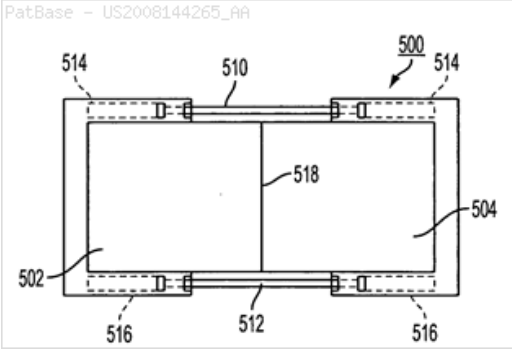
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S06F200/1612 T04M1/02A2B8 T04M250/16

US: 29/428 29/428S 345/1.3 345/1.300P 361/679.04 361/679.040P

361/679.21 361/681



Family:

Publication number	Publication date	Application number	Application date
US2008144265 AA	20080619	US20060638640	20061213
US2011018785 AA	20110127	US20100897853	20101005
US7830333 BB	20101109	US20060638640	20061213
US7965258 BB	20110621	US20100897853	20101005

Priority:

US20060638640 20061213 US20100897853 20101005

Probable Assignee: PALO ALTO RESEARCH CENTER INC

Assignee(s): (std): PALO ALTO RES CT INC

Assignee(s): PALO ALTO RESEARCH CENTER INC

Inventor(s): (std): AOKI PAUL M

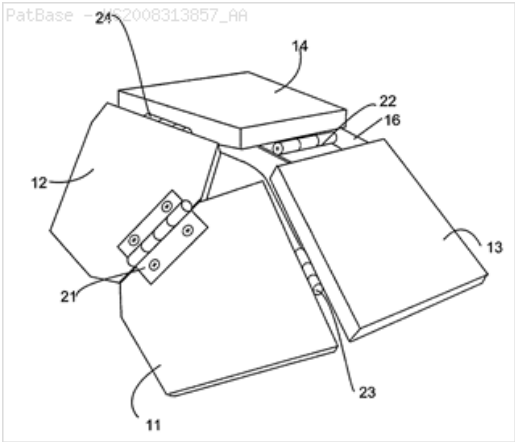
Agent(s): FAY SHARPE / XEROX - PARC; FAY SHARPE XEROX PARC; FAY SHARPE LLP / XEROX - PARC; FAY SHARPE LLP XEROX PARC; FAY SHARPE LLP

Title: FOLDING MECHANISM FOR COMPACT DEVICE

Abstract: Source: US2008313857A A device is provided which includes at least four device parts, a first hinge element foldably connecting a first device part and a second device part along one edge of said first and second device parts; a second hinge element foldably connecting a third device part and a fourth device part, a third hinge element foldably connecting said first device part and said third device part, and a fourth hinge element foldably connecting said second device part and said fourth device part.

Classifications:

International (IPC 8-9): E05D15/32 E05D7/00 G06F1/16 H04M1/02 (Advanced/Invention); E05D7/00 G06F1/16 H04M1/02 (Core/Invention)
CPC: Y10T16/54026 Y10T16/5476 H04M1/0247 G06F1/1616 G06F1/1652 G06F1/1666 G06F1/1681 H04M1/0214 H04M1/0268
European: G06F1/16P1F G06F1/16P9D7 G06F1/16P9K4 G06F1/16P9M6 H04M1/02A2P T04M1/02A14D2 T04M1/02A2B4
US: 16/333 16/333P 16/370 361/679.27



Family:

Publication number	Publication date	Application number	Application date
US2008313857 AA	20081225	US20070765146	20070619
US8082631 BB	20111227	US20070765146	20070619
WO08154977 A1	20081224	WO2008EP02991	20080415

Priority:

US20070765146 20070619

Probable Assignee: NOKIA TECHNOLOGIES OY

Assignee(s): (std): EROMAKI MARKO ; NOKIA CORP

Assignee(s): NOKIA TECHNOLOGIES OY

Inventor(s): (std): EROMAKI MARKO

Agent(s): ALSTON AND BIRD LLP; KURIG THOMAS

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: TRANSPARENT DISPLAY AND OPERATION METHOD THEREOF

Abstract: Source: US2009295731A A terminal including a first body, a second body connected to the first body, a first display disposed on the first body, a second display disposed on the second body and having a transparency such that information displayed on the first display can be seen through the second display having the transparency when the first and second displays overlap each other, and a controller configured to control a movement of a displayable object between the first and second displays based on a particular condition occurring on the terminal.

Classifications:

International (IPC 8-9): C09K19/02 G01C9/00 G01P9/00 G02F1/133 G02F1/1335 G06F1/16 G06F3/02 G06F3/041 G06F3/048 G06F3/0481 G06F3/0484 G06F3/14 G09G3/32 G09G3/36 G09G5/00 G09G5/02 G09G5/10 G09G5/14 H01M10/40 H01M10/46 H02N6/00 H04B1/38 H04B1/40 H04M1/00 H04M1/02 H04M1/21 H04M1/22 H04M1/23 H04M1/247 H04M1/725 H04M3/42 H04N5/00 H04N5/217 H04N5/222 H04N5/225 H04N5/228 H04N5/232 H04N5/76 H04N7/14 H04N9/00 H04W52/02 H04W99/00 (Advanced/Invention); G02F1/133 G02F1/1333 G06F3/038 G09G3/14 G09G3/34 H01L25/00 H04B1/40 H04M1/02 (Advanced/Non-invention); G01C9/00 G01P9/00 G02F1/13 G06F1/16 G06F3/041 G06F3/048 G09G3/32 G09G3/36 G09G5/00 G09G5/02 G09G5/10 G09G5/14 H01M10/36 H01M10/42 H02N6/00 H04B1/38 H04B1/40 H04M1/00 H04M1/02 H04M1/21 H04M1/22 H04M1/23 H04M1/247 H04M1/72 H04N5/225 (Core/Invention)

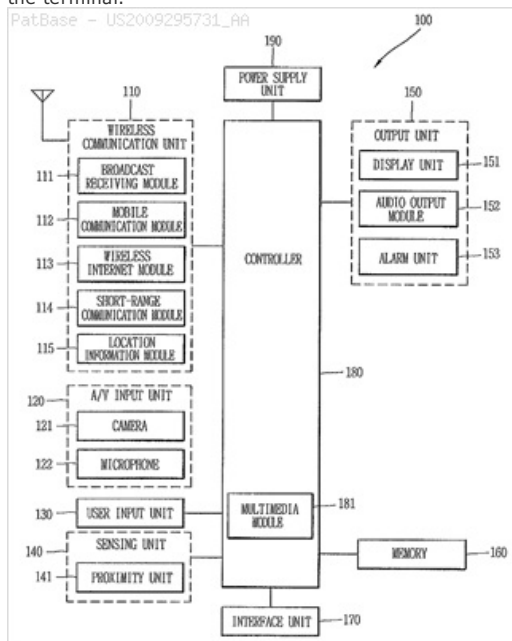
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European: G06F1/16P1F G06F1/16P1F4 G06F1/16P1R G06F1/16P1S G06F1/16P3 G06F1/16P5 G06F1/16P9D G06F1/16P9D3 G06F1/16P9D5 G06F1/16P9M2 G06F1/16P9P G06F1/16P9P2 G06F3/0481 G06F3/0482 G06F3/0486 G06F3/0488T G06F3/14C2 H01M10/46B H04M1/02A2B2 H04M1/02A2B4 H04M1/02A2B8 H04M1/02A2F2 H04M1/02A2P H04M1/21 H04M1/725F1 H04M1/725F1G H04M1/725F4 H04N5/217 H04N5/225C H04N5/225C2 H04N5/232 H04N5/232V H04N7/14A2 H04N7/14A2B H04W52/02L4D H04W52/02T8C2 S02F1/1333U S02F1/133D2 S02F201/44 S06F200/1614 S06F203/04804 S09G3/34B S09G300/02S S09G340/14C S09G360/04 S09G360/14S T04M1/02A2B T04M1/02A2B2 T04M1/02A2B4 T04M1/02A2B6S T04M1/02A2B8 T04M1/02A2F2 T04M1/02A2P T04M1/23S T04M1/725F1G T04M250/12 T04M250/16 T04M250/22 T04M250/52 T04N1/00C7D T04N101/00 T04N7/14A2H Y02E60/12

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Priority:

EP20080021819 20081216	EP20090151078 20090122	KR20080050460 20080529
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Probable Assignee: LG ELECTRONICS INC

Assignee(s): (std): CHOI KYUNG DONG ; KIM JONG HWAN ; LG ELECTRONICS INC ; LG ELECTRONICS INC KR ; PARK NAM YONG

Inventor(s): (std): CHOI KYUNG DONG ; KIM JONG HWAN ; PARK NAM YONG

Agent(s): WUESTHOFF AND WUESTHOFF PATENTANWAELTE PARTG MBB; KATERLE AXEL; CABINET PLASSERAUD; Cabinet Plasseraud; BIRCH STEWART KOLASCH AND BIRCH; BIRCH STEWART KOLASCH AND BIRCH LLP

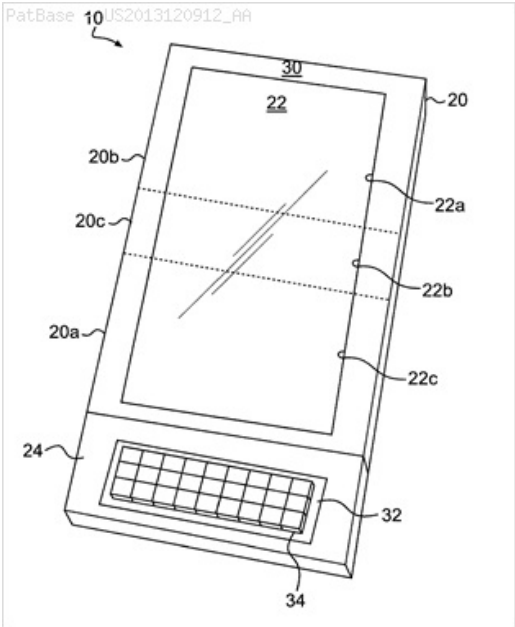
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Title: HANDHELD ELECTRONIC DEVICE HAVING A FLEXIBLE DISPLAY

Abstract: Source: US2013120912A A handheld electronic device includes a housing, a flexible display associated with the housing, and an input portion linked to the housing. The flexible display has a folded arrangement in which the flexible display defines a first portion and a second portion. The device is configured to sandwich the input portion in-between the first portion of the flexible display and the second portion of the flexible display when the flexible display is in the folded arrangement.

Classifications:

International (IPC 8-9): H05K5/02 (Advanced/Invention)
CPC: G06F1/1616 G06F1/1626 G06F1/1641 G09F9/301 H04M1/0268 G06F1/1652
US: 361/679.01



Family:

Publication number	Publication date	Application number	Application date
US2013120912 AA	20130516	US20110296364	20111115

Priority:

US20110296364 20111115

Probable Assignee: BLACKBERRY LTD

Assignee(s): (std): GRIFFIN JASON TYLER ; LADOUCEUR NORMAN MINER ; RESEARCH IN MOTION LTD

Assignee(s): BLACKBERRY LTD ; RESEARCH IN MOTION LIMITED

Inventor(s): (std): GRIFFIN JASON TYLER ; LADOUCEUR NORMAN MINER

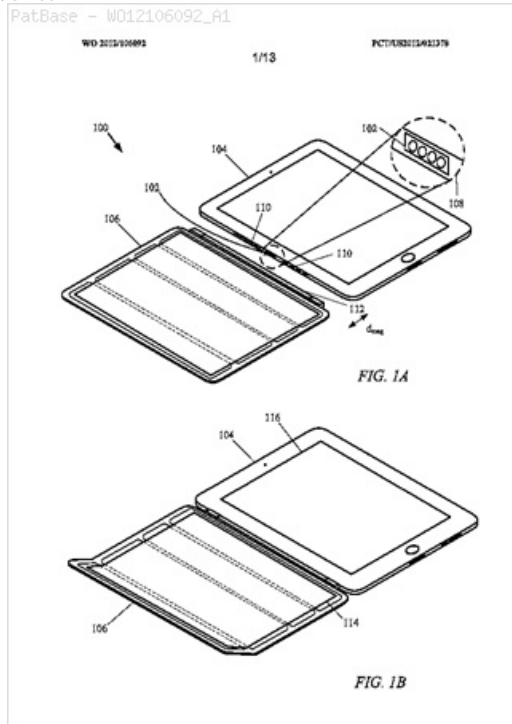
Title: COVER ATTACHMENT WITH FLEXIBLE DISPLAY

Abstract: A tablet device with a flexible cover is disclosed. Thin flexible display technology can be integrated into the flexible cover without affecting the overall form factor of the cover or tablet device. Adding the integrated display to the flexible cover greatly enhances the overall functionality of the tablet device.

Classifications:

International (IPC 8-9): A45C11/00 A45C13/00 A45C15/00
G06F1/16 G06F1/18 G06F3/041 G06F3/14 G06F3/147 G09F9/00
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G09G5/38 (Advanced/Invention)

CPC: A45C11/00 A45C13/002 A45C15/00 A45C2011/003
A45C2200/15 G06F1/1626 G06F1/1643 G06F1/1647 G06F1/1652
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G06F3/0202 G06F3/0482 G06F3/1446 G06F3/04883 A63B71/0622
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**Family:**

Publication number	Publication date	Application number	Application date
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WO12106092 A1	20120809	WO2012US21378	20120113

Priority:

AU20120212597 20120113 AU20150268618 20151209 US20110438220P 20110131
US20110208235 20110811 WO2012US21378 20120113

Probable Assignee: APPLE INC

Assignee(s): (std): APPLE INC ; CORBIN SEAN S ; LAUDER ANDREW ; ROTHKOPF FLETCHER R

Inventor(s): (std): CORBIN SEAN S ; LAUDER ANDREW ; ROTHKOPF FLETCHER R

Inventor(s): SEAN S CORBIN ; FLETCHER R ROTHKOPF ; ANDREW LAUDER

Agent(s): FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; GILLARD MATTHEW PAUL;
FERRAZANO MICHAEL J

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU
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IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT
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SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: FOLDABLE MOBILE TERMINAL

Abstract: Source: US2010328860A A portable terminal includes a first body having a first touch screen on an outer surface of the first body, a second body having a second touch screen on an outer surface of the second body, and a hinge unit configured to rotatably connect the first body and the second body. The first touch screen and the second touch screen face the same direction in an unfolded configuration, and the first touch screen and the second touch screen face each other in a folded configuration. The portable terminal further includes a rotation preventing unit configured to prevent relative rotation of the first body and the second body in the absence of an action for relative rotation when the portable terminal is in the unfolded configuration.

Classifications:

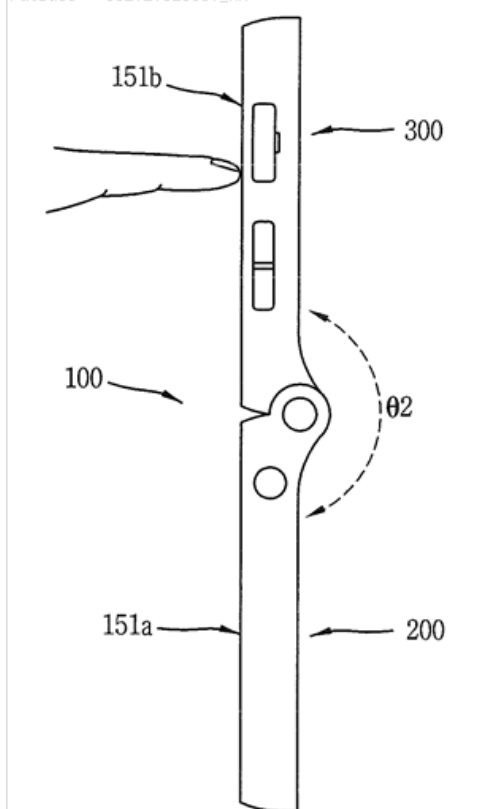
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European: H04M1/02A2B4F P05D11/06 P05Y900/606 T04M250/16 T04M250/22

US: 345/173 361/679.01 361/679.010P 361/679.06 361/679.26 361/679.27 361/679.3 455/575.1 455/575.3 455/575.4

PatBase - US2010328860_AA



Family:

Publication number	Publication date	Application number	Application date
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Priority:

EP20100002176 20100303 KR20090057254 20090625 KR20090089770 20090922

Probable Assignee: LG ELECTRONICS INC

Assignee(s): (std): KIM BYOUNG CHUL ; KIM CHI YOUNG ; LG ELECTRONICS INC ; SEONG JUN YEOP

Inventor(s): (std): BYOUNG CHUL KIM ; CHI YOUNG KIM ; JUN YEOP SEONG ; KIM BYOUNG CHUL ; KIM CHI YOUNG ; SEONG JUN YEOP

Agent(s): WUESTHOFF AND WUESTHOFF PATENTANWALTE PARTG MBB; KATERLE AXEL; LEE HONG DEGERMAN KANG AND WAIMEY

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Title: SOFT DISPLAY DEVICE FOR PORTABLE TERMINAL

Abstract: Source: US2013141847A The present invention relates to a soft display device for a portable terminal and more specifically to a soft display device of a portable terminal, wherein a soft display that is fabricated with soft materials to be flexible is used to further enlarge the screen of a portable terminal (cellular phone, PMP, electronic dictionary, DMB, navigation, notebook, UMPC) so that a wider screen may be provided to the user. In the first embodiment of the present invention, the soft display device of a portable terminal of the present invention comprises a housing wherein an empty space is formed, a soft display wherein at least one part out of its entire surface area is exposed at the top of said housing and extended from the one part exposed on said top so that it may be pushed and pulled inside said housing, and a support part that supports said soft display accommodated inside said housing.

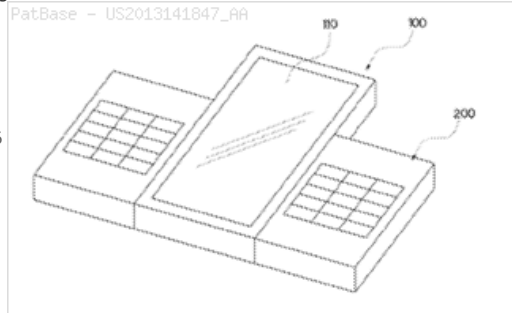
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International (IPC 8-9): G02F1/1333 G02F1/1345 G02F1/136
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H04N5/64 H05K5/00 H05K5/02 (Advanced/Invention);
H04N5/645 (Advanced/Non-invention);
G02F1/13 H04B1/38 H04N5/64 (Core/Invention)

IPC: H05K5/0217 H04M1/0268 H05K5/0017 G06F1/1652 G06F1/1616
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US: 1/1 361/679.01 361/679.27



Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: RYU SANG KYU

Assignee(s): (std): RYU SANG KYU ; SANG KYU RYU

Inventor(s): (std): RUY SANG KYU ; RYU SANG KYU ; SANG KYU RYU

Inventor(s): RYUA SANG KYU ; SANG KYU RUY

Agent(s): MADDERNS PATENT AND TRADE MARK ATTORNEYS; COLLISON AND CO; MCMILLAN LLP; PULIERI
GIANLUCA ANTONIO; REVOLUTION IP PLLC; SHIN MYUNG GUN

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU
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SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: FOLDING MULTIMEDIA DISPLAY DEVICE

Abstract: Source: US2007285341A Various configurations of an electronic display, and devices incorporating the display, are provided. The display may have multiple portions connected along one or more axes, lines, points, or other connecting areas. The portions are movable about the connections. In various configurations, the display portions emulate different media and/or communication and computing devices. Two or more of the display devices may be coupled in an array.

Classifications:

International (IPC 8-9): G06F1/16 G06F3/14

G09G5/00 (Advanced/Invention);

G09G5/00 (Core/Invention)

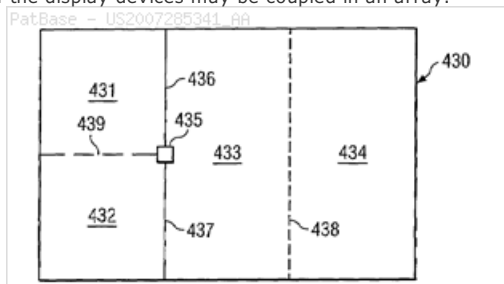
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European: G06F1/16P1F G06F1/16P9D2 G06F1/16P9M2

G06F1/16P9M4

US: 1/1 345/1.1 345/1.3 345/1.300P 345/13 345/204



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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 US20160243553 20160822

Probable Assignee: CFPH LLC

Assignee(s): (std): CFPH LLC ; MANNING GREGORY P

Inventor(s): (std): MANNING GREGORY P

Agent(s): BAKER BOTTS LLP; INNOVATION DIVISION; RUTH J; RUTH MA; GLEN

Title: COVER FOR ELECTRONIC DEVICE

Abstract: Source: US2003160754A An electronic device such as a personal digital assistant (PDA) is disclosed. The electronic device includes a cover coupled to a computing device. The cover may include at least one of a touch panel and a lighting system.

Classifications:

International (IPC 8-9): G06F1/16 G09G5/00 (Advanced/Invention);

G06F1/16 G09G5/00 (Core/Invention)

International (IPC 1-7): G09G5/00

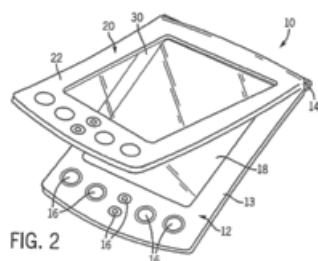
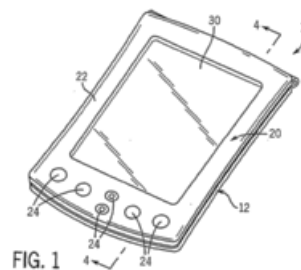
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European: G06F1/16P G06F1/16P1F G06F1/16P3 G06F1/16P9D2 G06F1/16P9P S06F200/1634

US: 345/156 345/156P 345/173 345/175

PatBase - US2003160754_AA

Patent Application Publication Aug. 28, 2003 Sheet 1 of 4 US 2003/0160754 A1



Family:

Publication number	Publication date	Application number	Application date
US2003160754 AA	20030828	US20020085326	20020228
US7079119 BB	20060718	US20020085326	20020228

Priority:

US20020085326 20020228

Probable Assignee: QUALCOMM INC

Assignee(s): (std): PALM INC

Assignee(s): QUALCOMM INC ; HEWLETT PACKARD DEVELOPMENT CO LP ; JPMORGAN CHASE BANK NA

Inventor(s): (std): GETTEMY SHAWN R ; HANSON WILLIAM R ; WONG YOON KEAN

Agent(s): FOLEY AND LARDNER LLP

Title: SLIM PROFILE FOLDABLE DEVICE

Abstract: Source: US2007297125A A slim profile foldable device has a body and a cover configured for articulated movement about a pivot axis between a closed position and an open position. A frame member is configured for co-operative connection with the body and with the cover and bendable about a folding axis and is non-accessible in the device's closed position and is accessible in the device's open position. The frame member may comprise two sections joined by a compliant hinge configured to bend about the folding axis when the device moves between the open and closed positions and comprises a substantially smooth outward facing surface in the device open position.

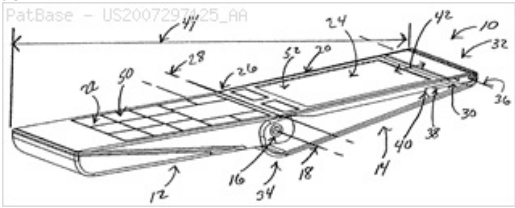
Classifications:

International (IPC 8-9): G06F1/16 H04M1/02 (Advanced/Invention); G06F1/16 H04M1/02 (Core/Invention)

CPC: H04M1/0216 H04M1/022 H04M1/0237 H04M1/0247

European: H04M1/02A2B4F H04M1/02A2B4F2 H04M1/02A2P T04M1/02A2B8F

US: 361/679.01 361/681



Family:

Publication number	Publication date	Application number	Application date
CN101480023 A	20090708	CN200780024225	20070621
EP2033417 A2	20090311	EP20070766579	20070621
EP2033417 A4	20091216	EP20070766579	20070621
US2007297125 AA	20071227	US20060476917	20060627
WO08001180 A2	20080103	WO20071B01690	20070621
WO08001180 A3	20080228	WO20071B01690	20070621

Priority:

US20060476917 20060627 WO20071B01690 20070621

Probable Assignee: NOKIA CORP

Assignee(s): (std): MAATTA ESA SAKARI ; NOKIA CORP ; NOKIA INC

Inventor(s): (std): MAATTA ESA SAKARI

Agent(s): COHAUSZ AND FLORACK; WARE FRESSOLA VAN D SLUYS AND ADOLPHSON LLP; MAGUIRE FRANCIS J ET AL

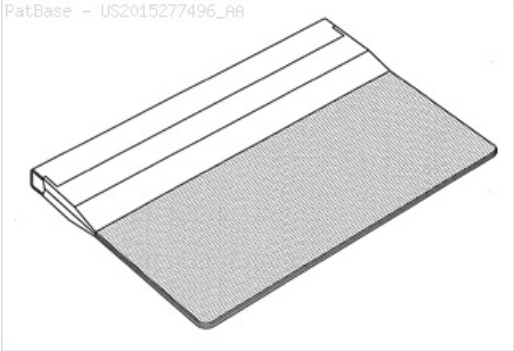
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Title: FOLDABLE ELECTRONIC DISPLAY

Abstract: Source: US2015277496A A foldable electronic display comprising first and second display panels. Each said display panel has opposed viewing and back sides and a curved edge between said viewing and back sides. Each display panel further comprises an array of pixels comprising display medium an electronics to control said array of pixels to display an image on said viewing side. The display comprises coupling means configured to retain a said edge of said first display panel adjacent to and substantially aligned to a said edge of said second display panel. The pixel array of at least said first display panel is curved to extend from said front, viewing side of the display panel at least to a region of said curved edge of the display panel. The coupling means is configured to allow rotation of a said display panel to roll the curved edge of a said first or second display panel over the adjacent edge of the other of the first and second display panels to open the display such that a boundary of the pixel array extension is not in an area visible to the user during said opening, said boundary in said region of said curved edge or back side of said first display panel.

Classifications:

International (IPC 8-9): G06F1/16 G06F3/14 G09F9/00 G09F9/30 (Advanced/Invention)
CPC: G06F1/1616 G06F3/1438 G06F1/1641 G06F1/1652 G09F9/301
US: 345/1.2



Family:

Publication number	Publication date	Application number	Application date
CN104838328 A	20150812	CN201380064024	20130924
GB201218004 A0	20121121	GB20120018004	20121008
GB201218894 A0	20121205	GB20120018894	20121022
GB2507117 A1	20140423	GB20120018894	20121022
TW201421208 A	20140601	TW20130135657	20131002
TWI610158 B	20180101	TW20130135657	20131002
US2015277496 AA	20151001	US20130433846	20130924
WO14057241 A1	20140417	WO2013GB52496	20130924

Priority:

GB20120018004 20121008 GB20120018894 20121022 WO2013GB52496 20130924

Probable Assignee: FLEXENABLE LTD

Assignee(s): (std): FLEXENABLE LTD ; PLASTIC LOGIC LTD

Assignee(s): PLASTIC LOGIC LIMITED

Inventor(s): (std): HUTCHINSON PETER ; REEVES WILLIAM

Inventor(s): WILLIAM REEVES ; PETER HUTCHINSON

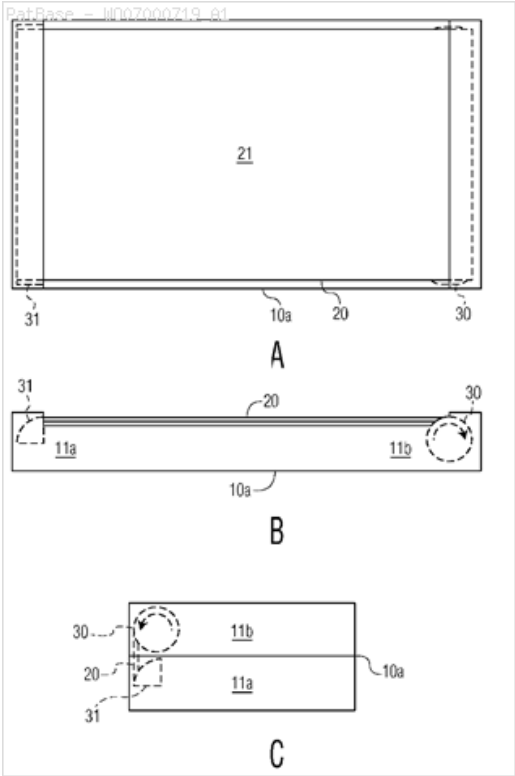
Agent(s): MARKS AND CLERK LLP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: FOLDABLE ELECTRONIC DISPLAY DEVICES HAVING FLEXIBLE AND / OR ROLLABLE SCREENS

Abstract: A foldable display device (electronic book) (10), comprises cover members (11a, 11b) and a flexible display screen (20). In one design the screen is unrolled from a rolling mechanism (30, 31) on opening and rolled up again on closing. A fixed attachment (31) ("screen guide") of the free end of the screen to a cover member opposite to that to which the rolling mechanism is attached, ensures that the rolling of the screen is automatic. A generalisation to more than two cover members is also described. In a second design (12), the rolling means is dispensed with: the flexible screen (20) is permanently fixed to both cover members irrespective of the device being open or closed. The part of the screen above the hinge (16) in the open position is bent and accommodated into a recess (escape) groove (15a) ("loop seat") on closing to avoid kinking the screen.

Classifications:
International (IPC 8-9): G02F1/13 G06F1/16 G06F15/02 G09G3/30 (Advanced/Invention); G02F1/13 G02F1/1333 (Advanced/Non-invention); G02F1/13 G06F1/16 G06F15/02 (Core/Invention)
CPC: G06F1/1616 G06F1/1652
European: G06F1/16P1F G06F1/16P9D7 S02F1/1333B S02F1/1334 S02F1/15 S02F1/167



Family:

Publication number	Publication date	Application number	Application date
TW200717420 A	20070501	TW20060122959	20060626
WO07000719 A1	20070104	WO20061B52102	20060626

Priority:

US20050695071P 20050629

Probable Assignee: KONINKL PHILIPS ELECTRONICS NV

Assignee(s): (std): DARMADJI KENNY ; GRIDLEY NEIL ; KONINKL PHILIPS ELECTRONICS NV ; NITSCH MANFRED ; PHILIPS CORP ; SCHELLINGERHOUT NICOLAAS W

Assignee(s): PHILIPS ELECTRONICS KONINKLL NV ; US PHILIPS CORP ; PHILIPS ELECTRONICS N V KONINKLL ; U S PHILIPS CORP

Inventor(s): (std): DARMADJI KENNY ; GRIDLEY NEIL ; NITSCH MANFRED ; SCHELLINGERHOUT NICOLAAS W

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: Non-rigid mounting of a foldable display

Abstract: Source: US6577496B A foldable display device coupled to a non-rigid support mechanism movable between an unfolded and a folded position. In one embodiment, the e-ink display device is dual sided and both sides can display information as well as accept touch screen commands. One side of the display device is used in the unfolded position and the opposite side is used in the folded position. In the unfolded position, the display device has a Personal Digital Assistant (PDA) form factor, and the entire area of one side of the display device is viewable. The display device is supported within the non-rigid support mechanism such that it lies in a flat plane in the unfolded position, and there is no loss of viewable area due to folding of the display device. The two sides of the non-rigid support mechanism are coupled for movement between a folded and an unfolded position and the display device is folded in a bend radius that precludes any disruption to the display area. Moving the support mechanism from the unfolded position to the folded position folds the display device about an axis that divides the display device into two equal rectangles. In the folded position, the display device has a candy bar form factor useful in cell phone applications, and the viewable area is about one half that of the PDA form factor used in the unfolded position. The non-rigid support mechanism holds the viewable area of the display device in a flat plane in the folded position.

Classifications:

International (IPC 8-9): G06F1/16 H04M1/02 (Advanced/Invention)

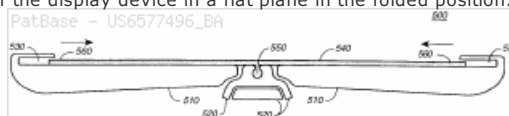
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H04M1/02A2 H04M1/02A2B4F S06F200/1632

US: 345/156 361/679.3 361/681 455/344



Family:

Publication number	Publication date	Application number	Application date
US6577496 BA	20030610	US20010766176	20010118

Priority:

US20010766176 20010118

Probable Assignee: QUALCOMM INC

Assignee(s): (std): PALM INC

Assignee(s): QUALCOMM INC ; HEWLETT PACKARD DEVELOPMENT CO LP ; JPMORGAN CHASE BANK NA

Inventor(s): (std): GIOSCIA RICH ; LAM LAWRENCE ; MASAMICHI UDAGAWA

Title: VARIABLE DISPLAY AREA TYPE DISPLAY DEVICE

Abstract: Source: US2012200991A The present invention relates to a variable display area type display device having a structure which can selectively extend or reduce a display area. The present invention comprises: a base plate having a foldable body; a display unit which is installed on one surface of the base plate and in which the display area is folded and changed by the folding of the base plate; and a plate supporting member for supporting the base plate before or after the folding of the base plate.

Classifications:

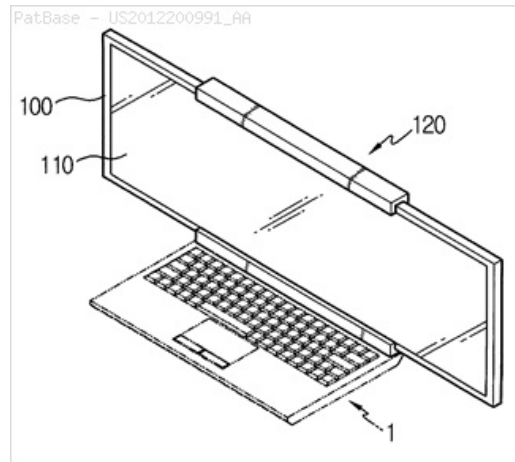
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G06F (Subclass/Invention)

CPC: G06F1/1652 G06F1/16 G06F1/1616 G06F1/162 G06F1/1681 G06F2203/04102 H04M1/0268 G06F1/1641 H04M1/0216 G06F1/1601

European: G06F1/16D

US: 361/679.01 361/679.010P 361/679.21 361/679.27 455/575.3



Family:

Publication number	Publication date	Application number	Application date
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AU2010293202 BB	20140529	AU20100293202	20100914
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CN102597904 A	20120718	CN201080041067	20100914
CN102597904 B	20170412	CN201080041067	20100914
EP2479635 A2	20120725	EP20100815667	20100914
EP2479635 A4	20151028	EP20100815667	20100914
IN00850KN2012 A	20160826	IN2012KN00850	20120409
JP2013504783 T2	20130207	JP20120528754T	20100914
KR101290267 B1	20130726	KR20120062247	20120611
KR20110029089 A	20110322	KR20100089082	20100910
KR20120083254 A	20120725	KR20120062246	20120611
KR20120083255 A	20120725	KR20120062247	20120611
MX2012003110 A1	20120612	MX20120003110	20100914
US2012200991 AA	20120809	US20100394899	20100914
US8842425 BB	20140923	US20100394899	20100914
WO11031122 A2	20110317	WO2010KR06277	20100914
WO11031122 A3	20110909	WO2010KR06277	20100914
ZA201204323 A	20130227	ZA20120004323	20120613

Priority:

KR20090086395 20090914 KR20090088082 20100914 KR20100089082 20100910
WO2010KR06277 20100914

Probable Assignee: SANG KYU RYE

Assignee(s): (std): RYU SANG KYU ; SANG KYU RYU

Assignee(s): SANG KYU RYE

Inventor(s): (std): RYU SANG KYU ; SANG KYU RYU

Inventor(s): SANG KYU RYE

Agent(s): MADDEN'S PATENT AND TRADE MARK ATTORNEYS; COLLISON AND CO; MITTLER ENRICO; HAMADA HARUO; ALIKI K; AKC PATENTS LLC

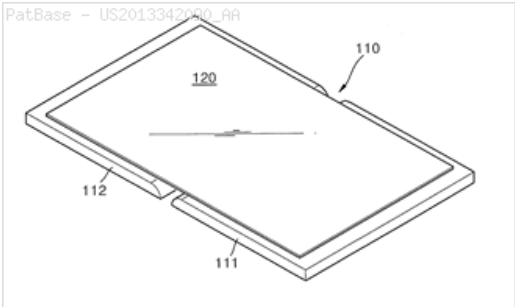
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Title: **FLEXIBLE DISPLAY** DEVICE

Abstract: Source: US2013342090A A **flexible display** device includes a housing including a first support and a second support, the first support and the second support being coupled with each other so as to be folded and unfolded by a folding device, and a flexible panel coupled with the housing. The folding device includes a plurality of link members for rotatably connecting the first support and the second support to each other.

Classifications:

International (IPC 8-9): A47B43/00 G06F1/16 G09F9/00
G09F9/33 (Advanced/Invention)
CPC: G09F9/33 G06F1/1616
US: 1/1 312/258



Family:

Publication number	Publication date	Application number	Application date
KR101386220 B1	20140417	KR20120068710	20120626
KR20140001376 A	20140107	KR20120068710	20120626
US2013342090 AA	20131226	US20120628503	20120927
US9064431 BB	20150623	US20120628503	20120927

Priority:

KR20120068710 20120626

Probable Assignee: SAMSUNG DISPLAY CO LTD

Assignee(s): (std): AHN SUNG SANG ; LIM SANG HYUN ; SAMSUNG DISPLAY CO LTD

Assignee(s): SAMSUNG DISPLAY CO

Inventor(s): (std): AHN SUNG SANG ; LIM SANG HYUN

Agent(s): LEE AND MORSE PC

Title: MOBILE DEVICE

Abstract: Source: US2012044620A A mobile device is includes a first case; a second case performing a swing motion about its end contiguous to the first case; a display portion formed to be wrapped around the end along external surfaces of the first case and the second case; and a hinge portion coupled to ends of the first case and the second case, wherein the hinge portion includes a first link having one end fixed to the interior of the first case and the other end coupled to a slot of the second case, and a second link having one end fixed to the interior of the second case and the other end coupled to a slot of the first case.

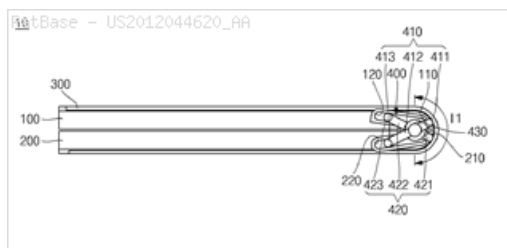
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CPC: H04M1/0216 G06F1/1616 G06F1/1652 G06F1/1681

European: G06F1/16P1F G06F1/16P9D7 G06F1/16P9M6 H04M1/02A2B4F

US: 361/679.01 361/679.010P



Title: INPUT DEVICE FOR FOLDABLE DISPLAY DEVICE AND INPUT METHOD THEREOF

Abstract: Source: US2010103133A An input apparatus including an electronic pen and a terminal having a foldable display unit is provided. An electronic pen generates an ultrasonic signal and an infrared signal. A terminal detects the ultrasonic signal and the infrared signal and calculates coordinate information of the electronic pen based on the received ultrasonic signal and the infrared signal. The terminal determines coordinate information of the electronic pen with respect to the foldable display unit by measuring a folding angle of the foldable display unit.

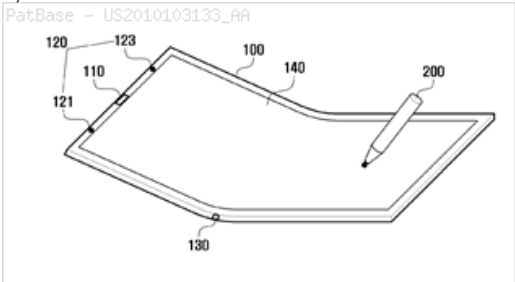
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CPC: G06F3/03545 G06F3/0412 G06F3/0414 G06F3/0433

European: G06F3/0354N G06F3/041D G06F3/041F G06F3/043G

US: 345/173 345/173P 345/174 345/179 345/179S



Family:

Publication number	Publication date	Application number	Application date
KR101542129 B1	20150806	KR20080104641	20081024
KR20100045628 A	20100504	KR20080104641	20081024
US2010103133 AA	20100429	US20090604962	20091023
US2014035872 AA	20140206	US20130048465	20131008
US8564551 BB	20131022	US20090604962	20091023

Priority:

KR20080104641 20081024 US20090604962 20091023 US20130048465 20131008

Probable Assignee: SAMSUNG ELECTRONICS CO LTD

Assignee(s): (std): KIM HYUN JIN ; PARK MIN KYU ; PARK YONG GOOK ; SAMSUNG ELECTRONICS CO LTD

Assignee(s): SAMSUNG ELECTRONICS CO

Inventor(s): (std): KIM HYUN JIN ; PARK MIN KYU ; PARK YONG GOOK

Agent(s): HC PARK AND ASSOCIATES PLC

Title: DISPLAY DEVICE AND ELECTRONIC APPLIANCE FOR USE IN COMBINATION THEREWITH

Abstract: Source: US2006107566A The display device of the invention comprises a **flexible display** element that can be extended in rollable fashion between a first position and a second position. In the first position the element is present in a housing and in the second position it is at least partially visible. The display element is supported in its second position by foldable arms. According to the invention a foldable arm comprises means which facilitate the extension of the display from the first to the second position and from the second position to a further position. These means also counteract any tendency of the display to return by itself from the second or any further position to the first position.

Classifications:

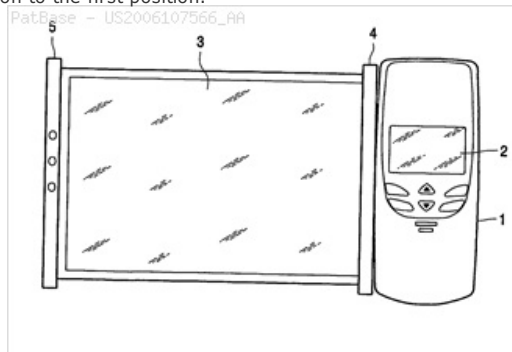
International (IPC 8-9): G09F11/29 G09F19/00 G09F9/00 G09F9/30 G09F9/35 H04M1/02 (Advanced/Invention); G09F9/30 (Advanced/Non-invention)

International (IPC 1-7): G09F11/29 G09F9/30 G09F9/35

CPC: G09F9/301 H04M1/0268 G09F9/35 G09F11/29 H04M2250/16

European: G09F11/29 G09F9/35 H04M1/02A14D2 T04M250/16

US: 40/514 40/515 40/515P



Family:

Publication number	Publication date	Application number	Application date
AU2003302796 AA	20040630	AU20030302796	20031205
CN100350439 C	20071121	CN200380105503	20031205
CN1723483 A	20060118	CN200380105503	20031205
EP1573703 A1	20050914	EP20030812648	20031205
EP1573703 B1	20170118	EP20030812648	20031205
JP2006509249 T2	20060316	JP20040558269T	20031205
JP4860154 B2	20120125	JP20040558269T	20031205
KR101055775 B1	20110811	KR20057010277	20031205
KR20050085412 A	20050829	KR20057010277	20031205
US2006107566 AA	20060525	US20030538095	20031205
US8096068 BB	20120117	US20030538095	20031205
WO04053818 A1	20040624	WO20031B05772	20031205

Priority:

EP20020080178 20021210 EP20030812648 20031205 WO20031B05772 20031205

Probable Assignee: SAMSUNG ELECTRONICS CO LTD

Assignee(s): (std): CREATOR TECHNOLOGY B V ; CREATOR TECHNOLOGY BV ; KONINKL PHILIPS ELECTRONICS NV ; KONINKLIKE PHILIPS ELECTRONICS ; ROYAL DUTCH PHILIPS ELECTRONICS LTD ; PHILIPS KONINKLL NV ; SAMSUNG ELECTRONICS CO LTD ; VAN RENS BAS J E ; VAN RENS BAS JAN EMILE

Assignee(s): PHILIPS ELECTRONICS KONINKLL NV ; KONINKLIKE PHILIPS ELECTRONICS NV ; SAMSUNG ELECTRONICS CO ; KONINKLIKE PHILIPS ELECTRONICS N V ; VAN RENS BAS J ; POLYMER VISION LTD ; KONINKLIJKE PHILIPS ELECTRONICS NV ; KONINKLIJKE PHILIPS ELECTRONICS N V

Inventor(s): (std): RENS BAS J E VAN ; VAN RENS BAS J E ; VAN RENS BAS JAN EMILE ; VAN RENS BAS JAN E

Inventor(s): BAS J ; VAN RENS BAS JAN ; VAN RENS BAS J

Agent(s): HGF LTD; PHILIPS INTELLECTUAL PROPERTY AND STANDARDS

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: FLEXIBLE MOBILE DISPLAY

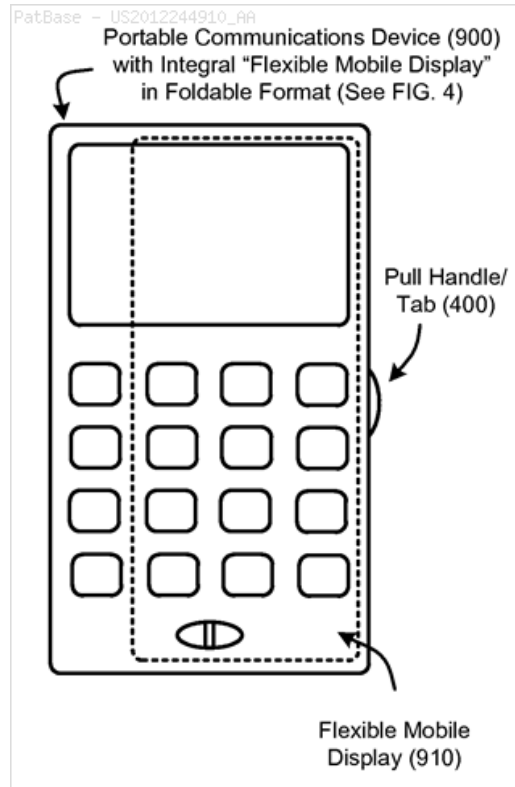
Abstract: Source: US2012244910A In general, a "Flexible Mobile Display," as described herein, provides various techniques for implementing a **flexible display** for mobile phones or other handheld or portable electronic or computing devices that, in various embodiments, is foldable and/or rollable. Consequently, the Flexible Mobile Display provides a large display in a small form factor that is user extensible. Advantageously, production of the Flexible Mobile Display uses an adaptation of various currently available production techniques and is expected to be relatively low cost to produce. Additionally, in various embodiments, the Flexible Mobile Display also includes a low cost touch or multi-touch sensing mechanism that can be easily integrated into the overall system.

Classifications:

International (IPC 8-9): G02B27/00 G03B21/00 G03B21/10
G03B21/30 G03B21/58 G03B21/60 G03B21/602 G09F19/00
G09F19/18 H04W88/02 (Advanced/Invention);
F21V8/00 (Advanced/Non-invention);
G02B G03B G09F (Subclass/Invention)

CPC: G03B21/10 G02B6/0053 G03B21/58 G03B21/602 G03B21/62
G03B21/625

US: 353/72 359/459 359/461 455/566

**Family:**

Publication number	Publication date	Application number	Application date
CN102737563 A	20121017	CN201210079580	20120322
CN102737563 B	20160824	CN201210079580	20120322
HK1177545 A1	20170728	HK20130104384	20130410
US2012244910 AA	20120927	US20110070336	20110323
US9022575 BB	20150505	US20110070336	20110323

Priority:

US20110070336 20110323

Probable Assignee: MICROSOFT TECHNOLOGY LICENSING LLC

Assignee(s): (std): HSU FENG HSIUNG ; MICROSOFT CORP ; MICROSOFT TECHNOLOGY LICENSING LLC

Inventor(s): (std): FENG HSIUNG HSU ; HSU FENG HSIUNG

Agent(s): MICKY; JEREMY; JUDY

Title: DISPLAY, ELECTRONIC UNIT, AND SUPPORTING SUBSTRATE

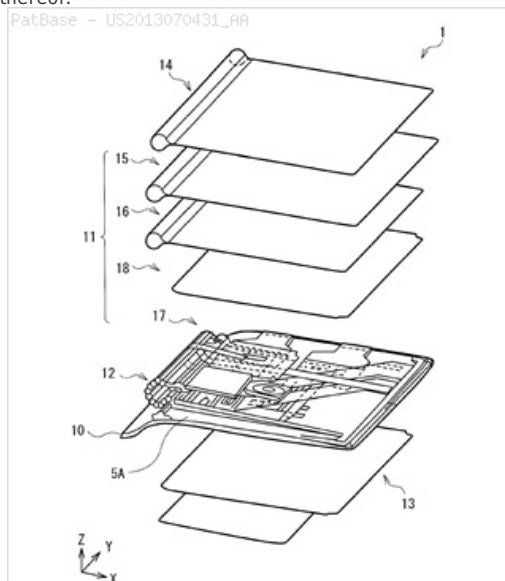
Abstract: Source: US2013070431A There are provided a display and an electronic unit that realize excellent operability when display content is switched based on a user operation associated with a variation in a physical form, and a supporting substrate employed in such a display. The display includes: a supporting substrate having flexibility; and a display section provided on the supporting substrate. The flexibility of the supporting substrate gradually increases toward an edge in a first region provided at at least a portion on a side of the edge in a plane thereof.

Classifications:

International (IPC 8-9): B32B3/00 G02F G06F1/16 G09B5/02 G09F9/00 G09F9/30 G09G3/34 H01L21/56 H01L27/32 H01L51/50 H05B33/02 H05K1/00 H05K7/02 (Advanced/Invention)

CPC: Y10T428/24479 G06F1/1652

US: 361/749 428/156 438/156



Family:

Publication number	Publication date	Application number	Application date
BR102012023277 A2	20131112	BR20121023277	20120914
CN103021277 A	20130403	CN201210348966	20120914
CN103021277 B	20170517	CN201210348966	20120914
CN202887612 U	20130417	CN201220477675U	20120914
EP2573644 A2	20130327	EP20120180704	20120816
IN02876DE2012 A	20140328	IN2012DE02876	20120914
JP2013068719 A2	20130418	JP20110205986	20110921
JP5887790 B2	20160316	JP20110205986	20110921
US2013070431 AA	20130321	US20120608028	20120910
US9013884 BB	20150421	US20120608028	20120910

Priority:

JP20110205986 20110921

Probable Assignee: SONY CORP

Assignee(s): (std): FUKUMA YOHEI ; KINOSHITA MASAHIRO ; NAKAMURA MITSUHIRO ; SONY CORP

Inventor(s): (std): FUKUMA YOHEI ; KINOSHITA MASAHIRO ; MASAHIRO KINOSHITA ; MITSUHIRO NAKAMURA ; NAKAMURA MITSUHIRO ; YOHEI FUKUMA

Agent(s): ROBINSON NIGEL ALEXANDER JULIAN; WOLF GREENFIELD AND SACKS PC

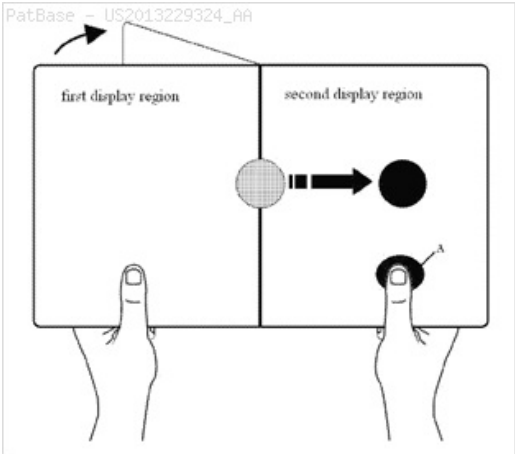
Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Title: DISPLAY METHOD AND ELECTRONIC DEVICE

Abstract: Source: US2013229324A A display method and an electronic device are provided. The display method is applied to the electronic device, and includes: displaying each display object of the display unit according to a first display parameter, monitoring the operation state of the electronic device to obtain a monitored result; acquiring a display adjusting command if the monitored result indicates that a fold or unfold operation is performed on the electronic device; adjusting the first display parameter of at least one display object of the display unit according to the display adjusting command to generate a second display parameter, and displaying the at least one display object according to the second display parameter.

Classifications:

International (IPC 8-9): G06F1/16 G06F3/041 G06F3/14 G09G5/00 G09G5/14 H04M1/725 (Advanced/Invention)
CPC: G09G5/00 G06F1/1641 G06F1/1652 G06F3/1446 G09G5/14 G09G2340/12
US: 1/1 345/1.3



Family:

Publication number	Publication date	Application number	Application date
CN103297605 A	20130911	CN201210055794	20120305
CN103297605 B	20161005	CN201210055794	20120305
CN103870040 A	20140618	CN201210541267	20121213
CN103870040 B	20170208	CN201210541267	20121213
US2013229324 AA	20130905	US20130785411	20130305
US9349342 BB	20160524	US20130785411	20130305

Priority:

CN201210055794 20120305 CN201210541267 20121213

Probable Assignee: BEIJING LENOVO SOFTWARE LTD

Assignee(s): (std): BEIJING LENOVO SOFTWARE LTD ; LENOVO BEIJING CO LTD ; LENOVO BEIJING LTD

Assignee(s): LENOVO BEIJING CO

Inventor(s): (std): WANG DEJUN ; ZHANG BO ; ZHAO CHUNLEI

Agent(s): HARNESS DICKEY AND PIERCE PLC

Title: DISPLAY DEVICE, CORRESPONDING SYSTEMS, AND METHODS THEREFOR

Abstract: Source: US2013120106A A display system includes a display and a control circuit operable with the display. The display is configured to provide visual output having a presentation orientation. When user input is received, the control circuit can alter the presentation orientation from an initial orientation in response to user input. When non-user events or device events are detected, the control circuit can revert the presentation orientation to the initial orientation in response to the non-user event or device event. Where the presentation orientation has a user input configuration associated therewith, the user input configuration can either be altered with the presentation orientation or retained in an initial disposition.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/01 A61B5/024 A61B5/145 G05B23/02 G06F1/16 G06F3/0484 G06F3/0488

H05K7/00 (Advanced/Invention);

A61B5/0402 A61B5/053 G06F3/0485 (Advanced/Non-invention)

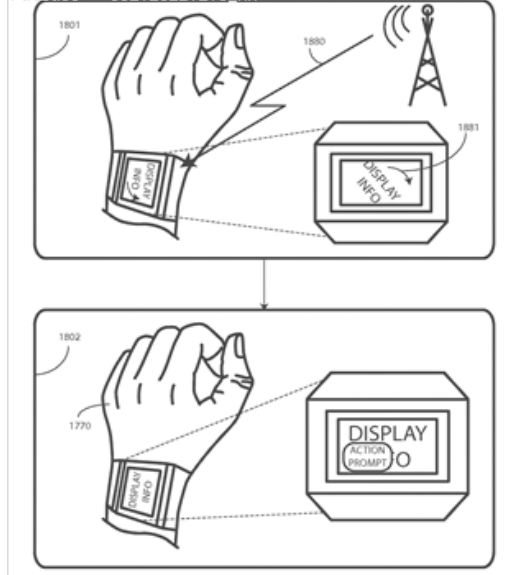
CPC: G06F3/04845 G06F1/163 G06F3/04883 A61B5/4266 A61B5/14532 A61B5/6898 G06F3/0485 A61B5/01 A61B5/024

A61B5/681 G06F2200/1614 G06F2200/1637 A61B5/0402

A61B5/0531 A61B5/7475

US: 340/3.1 345/650 361/728 715/799

PatBase - US2013120106A

**Family:**

Publication number	Publication date	Application number	Application date
US2013120106 AA	20130516	US20110297662	20111116
US2014372940 AA	20141218	US20140474808	20140902
US2017046054 AA	20170216	US20160336060	20161027
US9875008 BB	20180123	US20160336060	20161027
WO13074395 A1	20130523	WO2012US64300	20121109

Priority:

US20110297662 20111116 US20140474808 20140902 US20160336060 20161027

Probable Assignee: GOOGLE TECHNOLOGY HOLDINGS LLC

Assignee(s): (std): ALAMEH RACHID M ; CAUWELS PATRICK J ; DICKINSON TIMOTHY ; GOOGLE INC ; STEUER PAUL R ; MOTOROLA MOBILITY INC ; RASKY PHILLIP D ; MOTOROLA MOBILITY LLC ; GOOGLE LLC

Assignee(s): GOOGLE TECHNOLOGY HOLDINGS LLC

Inventor(s): (std): ALAMEH RACHID M ; CAUWELS PATRICK J ; DICKINSON TIMOTHY ; RASKY PHILLIP D ; STEUER PAUL R

Agent(s): COLBY NIPPER; CUNNINGHAM GARY J ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: ELECTRONIC DEVICE AND METHOD OF CONTROLLING THE SAME

Abstract: Source: US2013215041A According to the present invention, an electronic device is disclosed that includes a display unit including a bent state and a flat state that are distinguished from each other depending on a degree of bending, wherein the display unit is divided into at least two regions in the bent state by bending and a control unit configured to display information on the display unit according to a first video output characteristic when the display unit is in the flat state and to display information on a first region of the at least two regions according to a second video output characteristic and information on a second region of the at least two regions according to a third video output characteristic when the display unit changes from the flat state to the bent state.

Classifications:

International (IPC 8-9): G06F3/041 G06F3/16

G09G5/00 (Advanced/Invention)

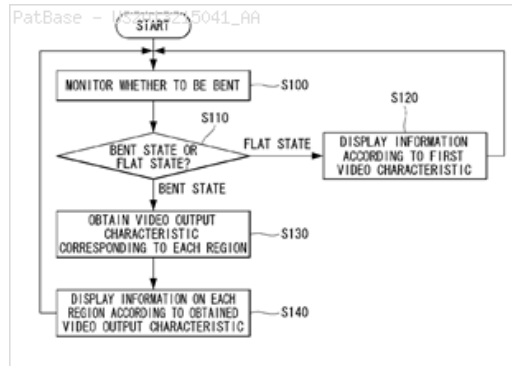
CPC: G06F3/017 G06F3/0346 G06F3/0487 G06F3/04883 G06F3/1423

G09G2320/0261 G09G2320/0626 G09G2320/066 G09G2320/0666

G09G2330/021 G09G2340/0464 G09G2354/00 G09G2356/00

G09G2380/02 G06F3/1446

US: 345/156 345/173



Family:

Publication number	Publication date	Application number	Application date
US2013215041 AA	20130822	US20120401135	20120221
US8963857 BB	20150224	US20120401135	20120221
WO13125745 A1	20130829	WO2012KR01633	20120306

Priority:

US20120401135 20120221

Probable Assignee: LG ELECTRONICS INC

Assignee(s): (std): KIM JIHWAN ; KIM JIHYUN ; KIM YONGSIN ; LG ELECTRONICS INC

Inventor(s): (std): KIM JIHWAN ; KIM JIHYUN ; KIM YONGSIN

Agent(s): BIRCH STEWART KOLASCH AND BIRCH LLP; ROYAL PATENT AND LAW OFFICE

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW