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(KR)  
(A)

(11)  
(43)

10-2010-0039977  
2010 04 19

(51) Int. Cl.

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*HDAB 7/26* (2006.01) *HDAB 1/40* (2006.01)

(21) ~~10-2008-0098991~~

20

(22) 2008 10 09

(72)

327-23 LG

R

D Campus

(74)

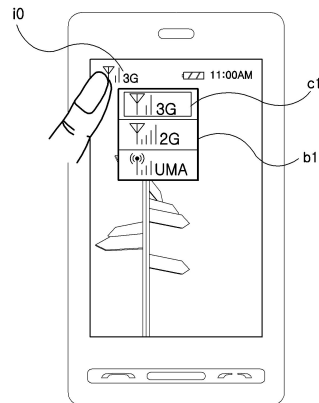
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(54)

(57)

, 2

- 8



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6

- (a) ;
- (b) ;
- (c)

**7**

- 6 ,
- (a) ,

**8**

- 6 7 ,

**9**

- (a) ;
- (b) 2 ,
- (c) ;

**10**

- 9 ,
- (b) ,

;

**11**

- 9 ,

(b) ,

;

12

10

11 ,

[0001]

, 2

[0002]

[0003]

terminal) (handheld terminal) (mobile/portable terminal) (vehicle mount terminal) (stationary ( ))

[0004]

(terminal)

(Multimedia player)

[0005]

/

[0006]

( , ) /

[0007]

2

[0008]

,

[0009] , 2 ; ;

[0010] ;

[0011] ,

[0012] ; 2 ;

[0013] ,

[0014] ,

[0015]

[0016] , " " " "

[0017] , (smart phone), (laptop computer),  
, PDA(Personal Digital Assistants), PMP(Portable Multimedia Player),  
, TV,

[0018] 1 (block diagram)

[0019] (100) (110), A/V(Audio/Video) (120), (130),  
(140), (150), (160), (170), (180) (190)  
. 1

[0020] ,

[0021] (110) (100) (100) (100)  
(110) (111), (112), (113), (114)

(115)

[0022]

(111)

/

[0023]

/

/

, TV

, TV

[0024]

(112)

[0025]

, DMB(Digital Multimedia Broadcasting)

EPG(Electronic Program Guide) DMB-H(Digital Video Broadcast-Handheld) ESG(Electronic Service Guide)

[0026]

(111)

, DMB-T(Digital Multimedia Broadcasting-Terrestrial),

DMB-S(Digital Multimedia Broadcasting-Satellite), MediaFLC(Media Forward Link Only), DMB-H(Digital Video Broadcast-Handheld), ISDB-T(Integrated Services Digital Broadcast-Terrestrial)

(111)

[0027]

(111)

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(160)

[0028]

(112)

/

[0029]

(113)

(100)

WAN(Wireless LAN(Wi-Fi), Wbro(Wireless broadband), Wmax(World Interoperability for Microwave Access), HSDPA(High Speed Downlink Packet Access)

[0030]

(114)

(short range communication)

(Bluetooth), RFID(Radio Frequency Identification), IrDA(infrared Data Association), UWB(Ultra Wideband), ZigBee

[0031]

(115)

GPS(Global

Position System)

[0032]

1

, A/V(Audio/Video)

(120)

(121)

(122)

(121)

(151)

[0033]

(121)

(160)

(110)

(121)

2

[0034]

(122)

(Microphone)

(112)

(122)

(noise)

[0035]

(130)

(130)

(key pad)

(done switch),

( / ),

- [0036] (140) (100) (100) (100) (100)
- [0037] (150) (152), (153), (154) (151),
- [0038] (151) (100) ( ) U(User Interface) GUI(Graphic User Interface) (100) / U, GUI
- [0039] (151) (liquid crystal display, LCD), (thin film transistor-liquid crystal display, TFT LCD), (organic light-emitting diode, OLED), (flexible display), 3 (3D display)
- [0040] TOLED(Transparant LED) (151) (151)
- [0041] (100) (151) 2 (100)
- [0042] (151) ( , ' ' ) (151)
- [0043] (151) (151)
- [0044] ( ) (180) (180) (151)
- [0045] 1 (141)
- [0046] ( )
- [0047] " (proximity touch)" " (contact touch)"
- [0048] ( , )

- [0049] (152), (110) (160) (152)  
(100) (152) (Receiver), (speaker), (Buzzer)
- [0050] (153) (100) (153)  
(151) (152)
- [0051] (151, 152) (153) (haptic module) (154) (154)
- [0052] (154) (electrode)
- [0053] (154) (154) (100)  
2
- [0054] (160) (180) / (160)
- [0055] (160) (flash memory type), (hard disk type),  
(multimedia card micro type), (SD XD),  
(Random Access Memory, RAM, SRAM(Static Random Access Memory), (Read-Only Memory, ROM,  
EEPROM(Electrically Erasable Programmable Read-Only Memory), PROM(Programmable Read-Only Memory),  
(internet) (160) (web storage) (100)
- [0056] (170) (100) (170)  
(100) (100) /  
(memory card)  
I/O(Input/Output) I/O(Input/Output) (170)
- [0057] (100)  
(User Identify Module, UIM, (Subscriber Identify Module, SIM,  
(Universal Subscriber Identity Module, USIM (smart card) (100)
- [0058] (100) (100) (cradle)  
(100)
- [0059] (controller, 180)



(181) (181) (180) (180)

[0060] (180)

[0061] (190) (180)

[0062]

[0063] ASICs (application specific integrated circuits),  
 DSPs (digital signal processors), DSPDs (digital signal processing devices), PLDs (programmable logic  
 devices), FPGAs (field programmable gate arrays, (processors), (controllers),  
 (micro-controllers), (microprocessors),  
 (180)

[0064]

(160) (180)

[0065] 2a

[0066] (100) , 2

[0067]

(101) (102) (101) (102)  
 (101) (102)

[0068]

(STS) (Ti)

[0069]

(101) (151), (152), (121),  
 (130/131, 132), (122), (170)

[0070]

(151) (101) (151)  
 (151) (121)  
 (131) (122) (132) (170) (101)  
 (102)

[0071]

(130) (100)  
 (131, 132) (131, 132) (manipulating portion)  
 (tactile manner)

[0072]

1 2 (131, 132) 1  
 (131) , 2 (132) (152)  
 (151)

- [0073] 2b 2a .
- [0074] 2b (102) (121') (121) (121')
- [0075] (121) (121') (121, 2a) (121, 121') (pop-up)
- [0076] (121') (123) (124) (123) (121') (124) (121')
- [0077] (152') (152') (152, 2a)
- [0078] (111, 1) (124) (124)
- [0079] (100) (190) (190)
- [0080] (102) (135) (135) (151) (151) (135) (135) (102) (135)
- [0081] (135) (101) (151) (135) (151) (151)
- [0082] 3a 3b (151) (135)
- [0083] 3a 3b
- [0084] (151)
- [0085]
- [0086] 3a
- [0087] (151)
- [0088] a) (151) (151a) (151b) (151) (151b) (151c) (151c) (151a) (131) (151a)

[0089] 3b (portrait) , 3b 3a (landscape)  
(151)

[0090] 3b (151) (151a')  
(151b') (151b') , (151c')  
(151c') (QUERY)

[0091] (135, 2b ) (151c') ,  
(151a') (135)  
(151) (151c')

[0092] (151) (151) (135) (scroll)  
(151) (135)  
(151) (151) (135)  
(151) (151)

[0093] (151) ( ) (135)  
(clamping) (151)  
(135)

[0094] 1 (141) , 4

[0095] 4

[0096] 4 (141)

[0097] (141) ( " " )

[0098] 4 3  
3 4

[0099] (d)  
d<sub>1</sub> 1  
d<sub>1</sub> d<sub>2</sub>  
2 d<sub>2</sub> d<sub>3</sub>  
3  
d<sub>3</sub>

[0100] (180)

[0101] 5 (155, 156)

[0102] (folding)  
1 (155) TOLED 2

(156) LCD . 1 2 (155 156)

- [0103] , 1 TOLED(155) { (contact touch)  
(proximity-touch) , (180) TOLED(155)  
(select) (run) .
- [0104] , (overlap) TOLED(155) LCD 15  
6) , , & (drag)
- [0105] ( ) TOLED(155) LCD(156) .  
, TOLED(155) , (180) LCD(156)  
, 2 3 ) , (180) LCD(156)
- TOLED(155) .
- [0106] LCD(156) ( ) TOLED(155)  
5) , LCD(156) TOLED(155)  
, (180) TOLED(155) , TOLED(155)  
LCD(156) , TOLED(155) (flicking), (swirling)  
LCD(156) LCD(156) 2 TOLED(155)
- [0107] , (180)  
TOLED(155)
- . 2 ( ) ( ) .
- [0108] , TOLED(155)  
, (180) LCD(156) ( ) ,  
( ) ( ) , (180)
- [0109] ( ) TOLED(155) ( 2 3  
) ( ) .
- [0110] , (180)
- [0111] (overlap)
- [0112] 6a 6b
- [0113] 6a  
(151) , 6a (a) , 1 (A) 2  
(B) . 1 (A) 2 (B) , 1 (A) 1  
, 2 (B) 1 , 1 (A) 1  
2 2 .
- [0114] , 6a (a) , 1 (A) 2 (B) ,  
1 (A)

[0115] 6a (b) 3 (A B C) 6  
a (c) , NN-4

3

[0116] (151)  
6b (a) (151)  
'C', 'B', 'A' (151)  
(b) 'H' (151) 6b

[0117] 6a

[0118] 2 ; ;

[0119]

[0120] 2

[0121]

[0122]

[0123] 7

[0124] (i0)

(i0) 2

[0125]

[0126] ( , (i0)  
)

[0127] 8 (i0)

(b1) 3 (b1)

(c1)

[0128] (b1) 3 (b1)

[0129]

(S20) , 9  
(S30); (S40)  
(S50);  
(S70)

[0130]

10 11 7  
, 12

[0131]

12  
(S110); (S120),  
(S130); (S140),  
(S150);  
(S160),  
(S170)

[0132]

10 S110  
(i0) 3G (n1) send (k1)

[0133]

(S120), 10 (i0)  
(b1)  
send (k1)

[0134]

13 (i1, i2, i3)

[0135]

(i1, i2, i3), (i2)  
(c2)

[0136]

(, (c2)  
)

[0137]

, 3 (i1, i2, i3) (c2) 2G  
13 (c2) UMA  
(i3), 14 (c2) UMA (i3)  
(c2) UMA

[0138]

, 15  
(S230);  
(S240)  
(S250);  
(S270)

[0139]

, 16 17

, send (k1),

[0140] , 18 ,  
 (S310);  
 (S330);  
 (S350); (S360),  
 (S370)

[0141] , , ,  
 , ROM RAM CD-ROM ,  
 ( , )

[0142]

[0143] 1

[0144] 2

[0145] 3 2

[0146] 4

[0147] 5 4

[0148] 6 4

[0149] 7

[0150] 8

[0151] 9

[0152] 10 11

[0153] 12

[0154] 13

[0155] 14

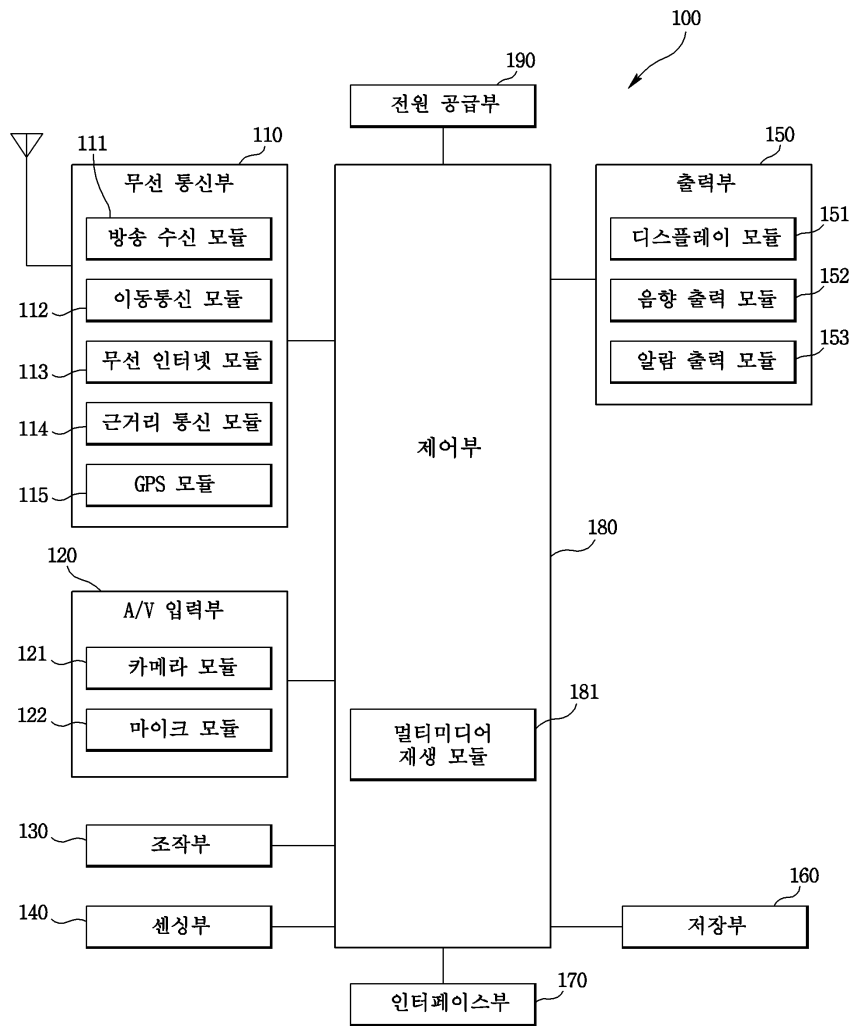
[0156] 15

[0157] 16 17

[0158] 18

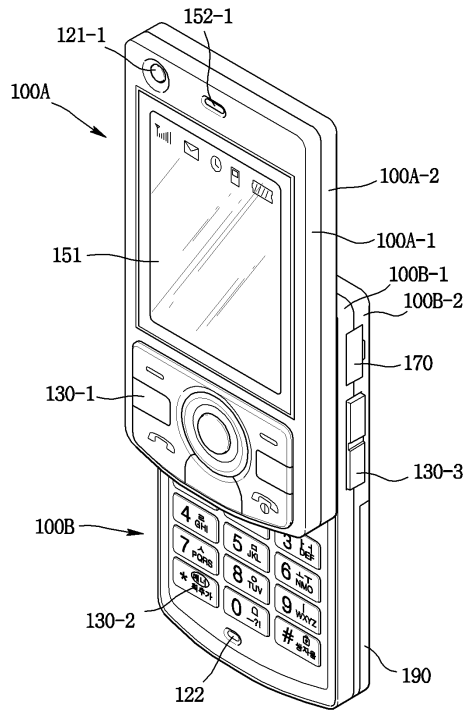
[0159]

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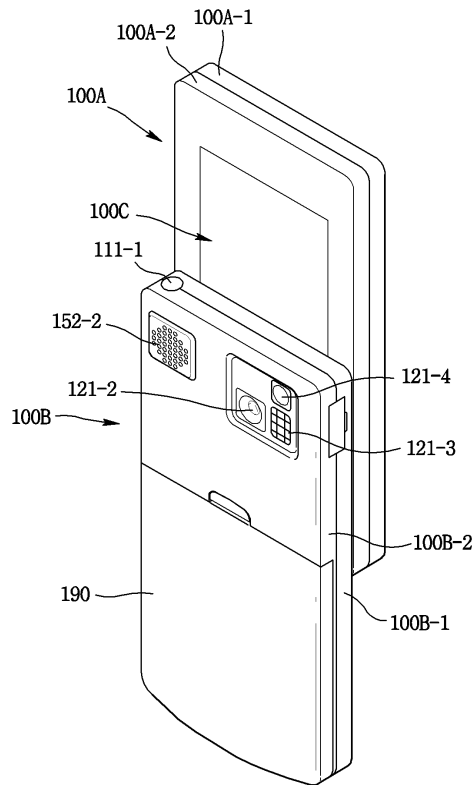




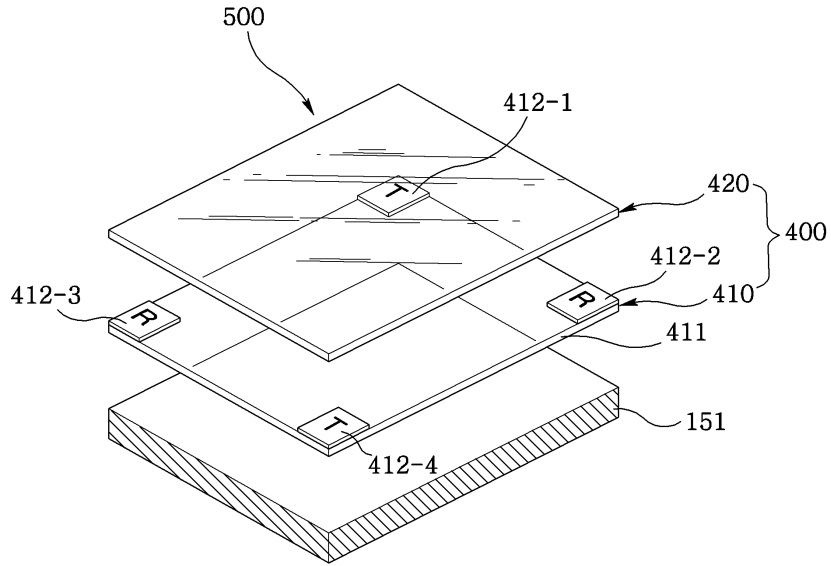
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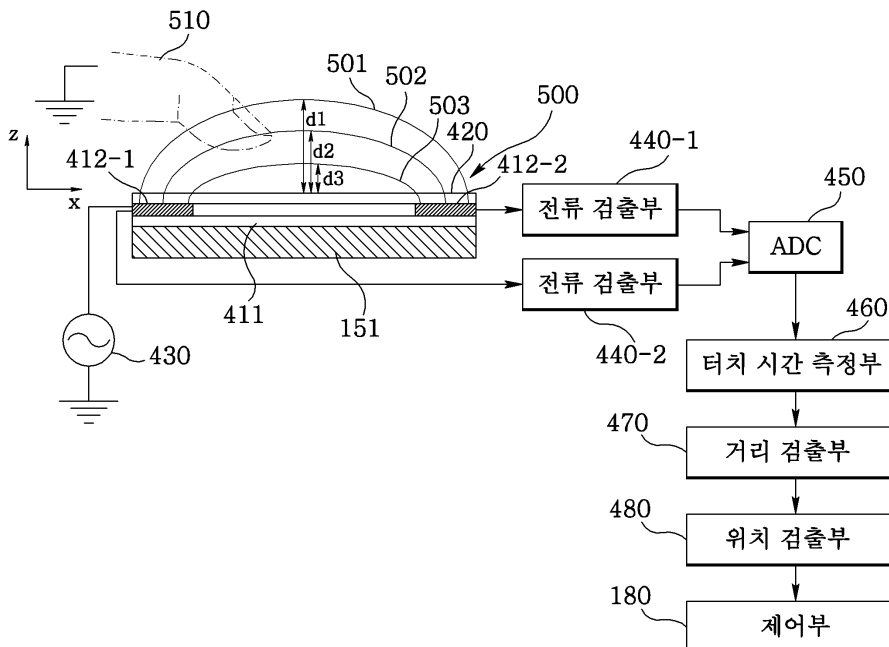
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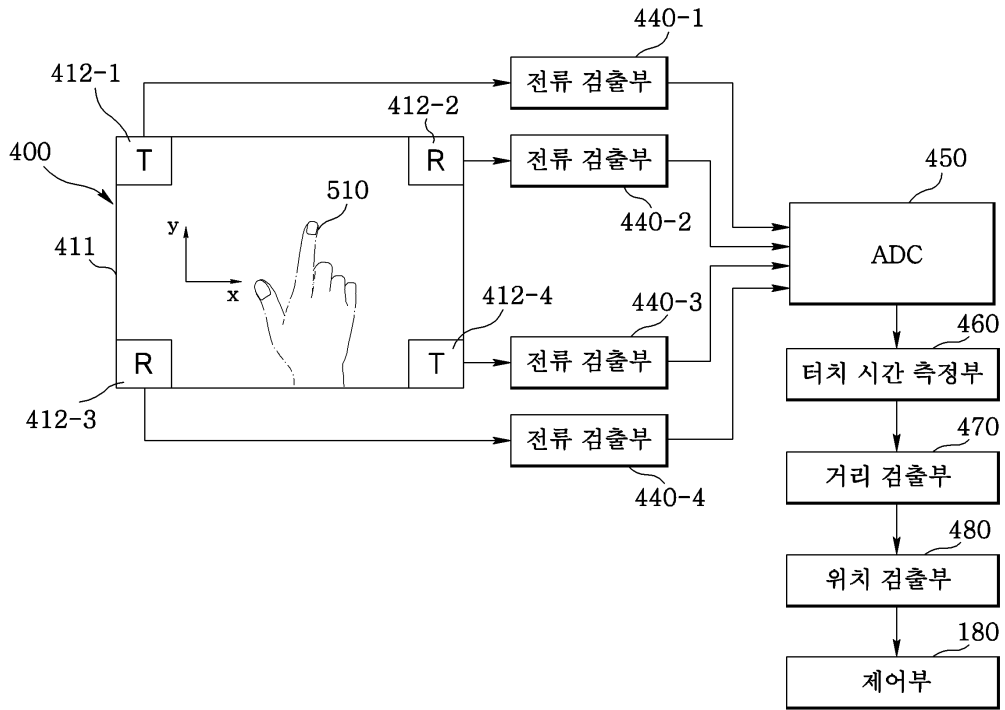
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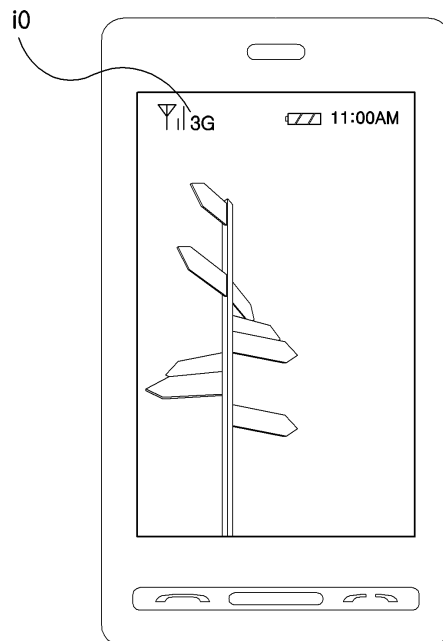
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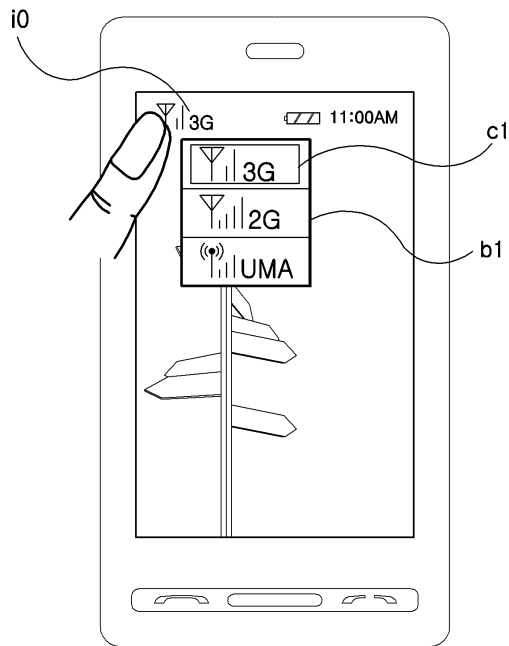
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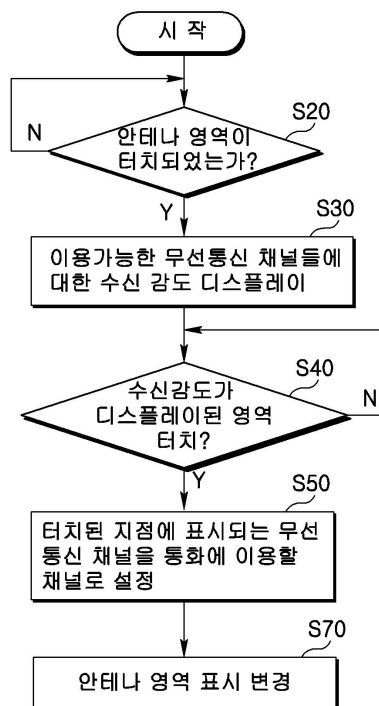
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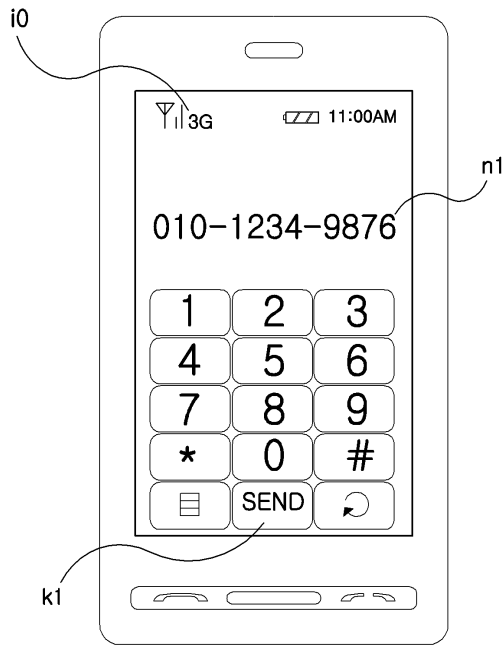
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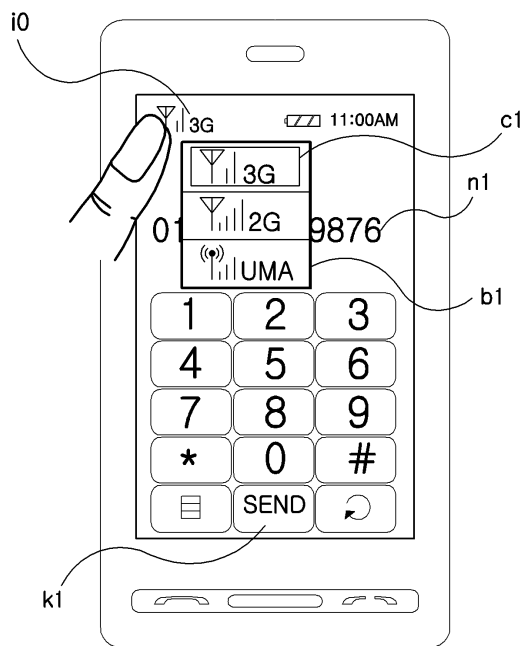
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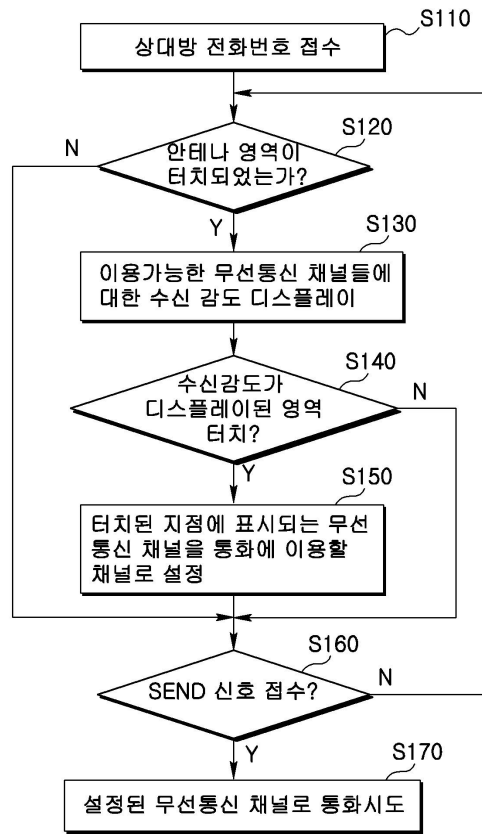
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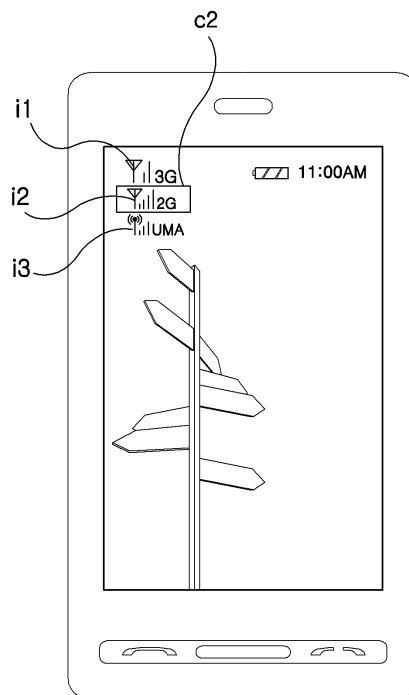
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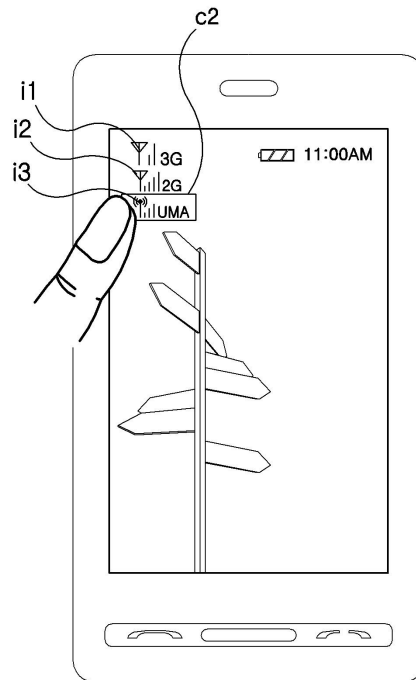
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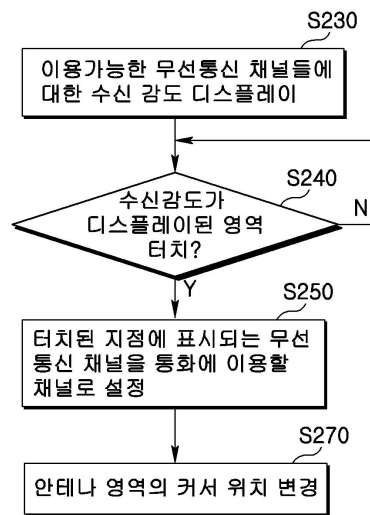
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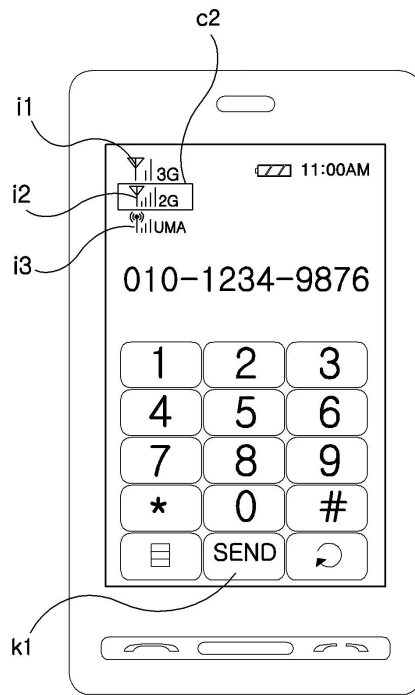
14



15



16



17

