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(43)

10-2010-0039977
2010 04 19

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

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

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(22) 2008 10 09

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327-23 LG

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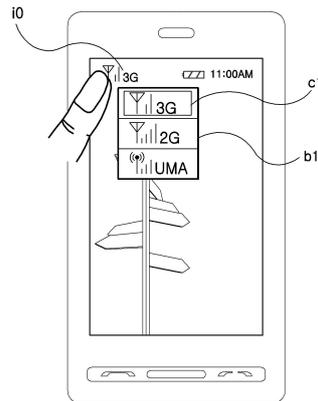
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- (a) ;
- (b) ;
- (c)

7

- 6 ,
- (a) ,

8

- 6 7 ,
- ,

9

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

10

- 9 ,
- (b) ,

;

11

- 9 ,

(b) ,

;

12

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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]

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[0028]

(112)

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[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)

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) (151) (135)
(151) (151) (135) (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)
d₁ 1
d₁ d₂
2 d₂ d₃
3
d₃

[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)

[0106] TOLED(155)
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) , 2

(i0)

[0125]

[0126] (, (i0)
)

[0127] 8 (i0)

(b1) 3 (b1)

(c1)

[0128] (b1) 3 (b1)

[0129] , 9
 (S20)
 (S30); (S40)
 (S50);
 (S70)

[0130] 10 11 7
 , 12

[0131] 12
 (S110); (S120),
 (S130); (S140),
 (S150);
 (S160),
 (S170)

[0132] 10 S110
 (nl) send (k1)
 , (i0) 3G

[0133] , (i0)
 (S120), 10 (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)
 (i3) , 14 (c2) UMA
 (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

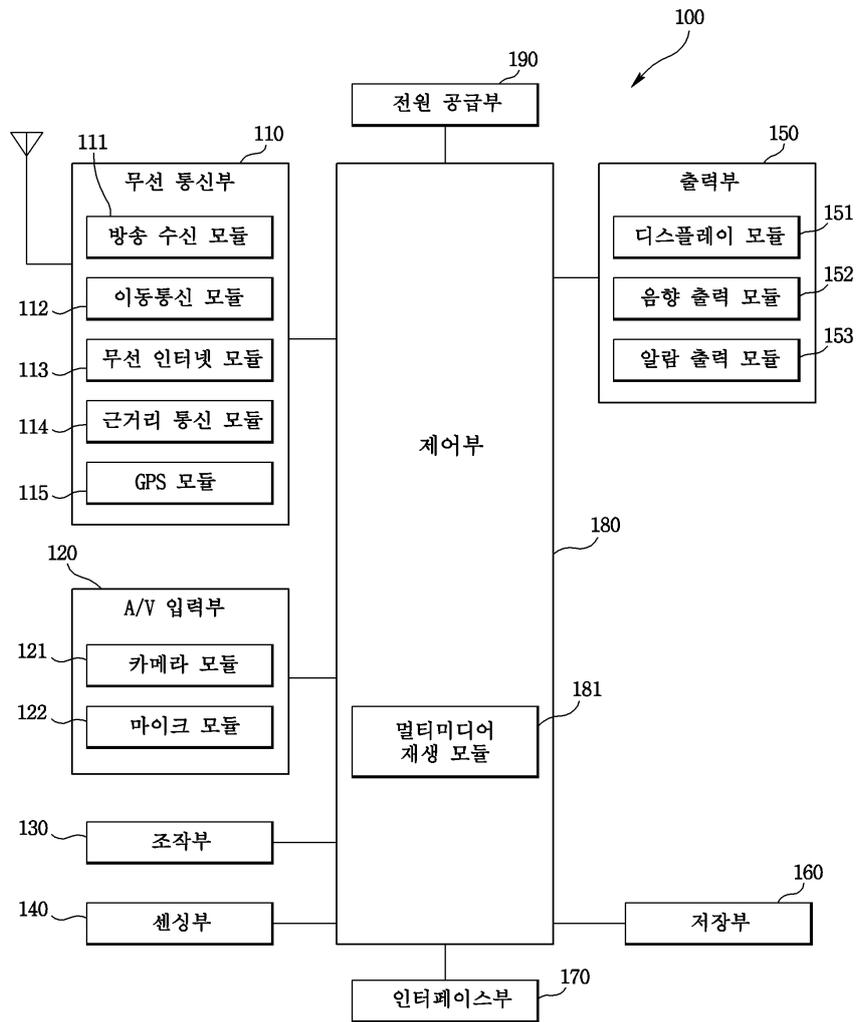
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[0157] 16 17

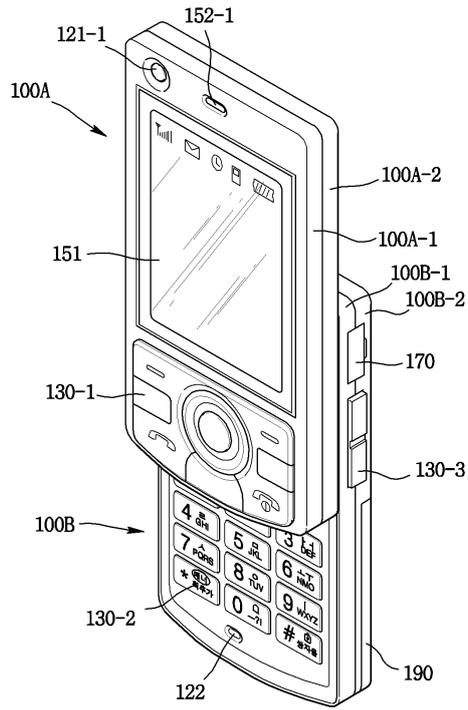
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[0159]

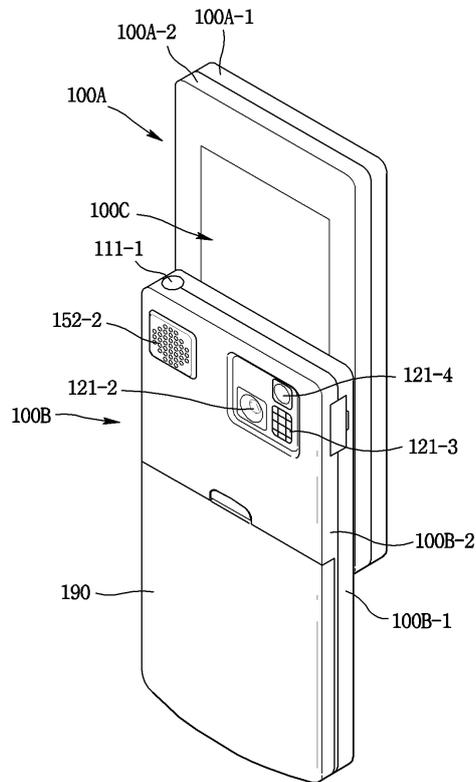
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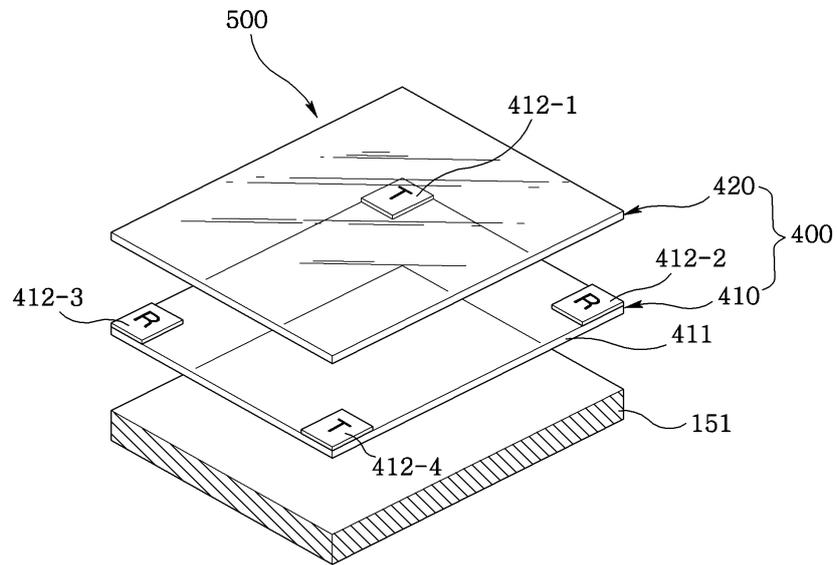
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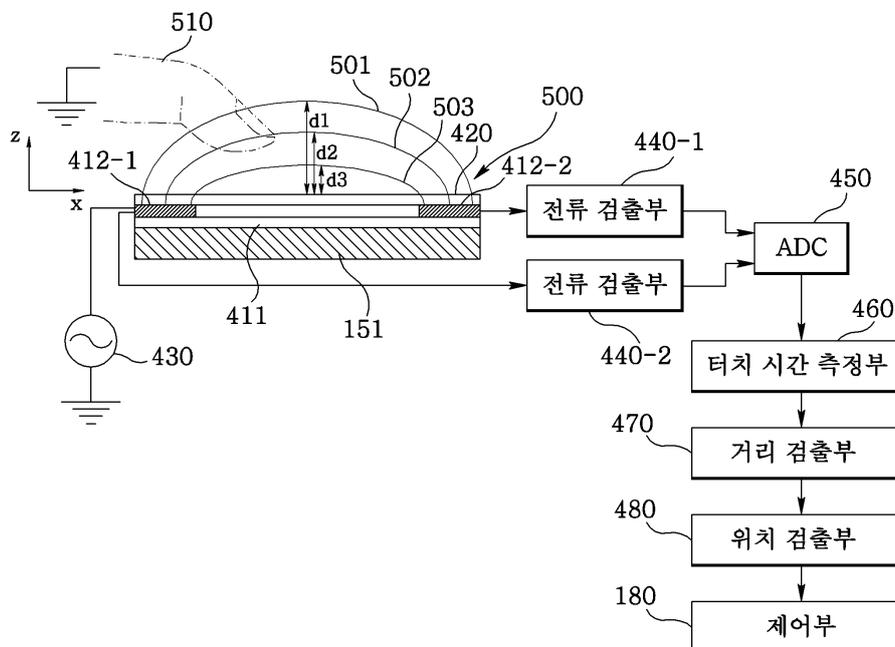
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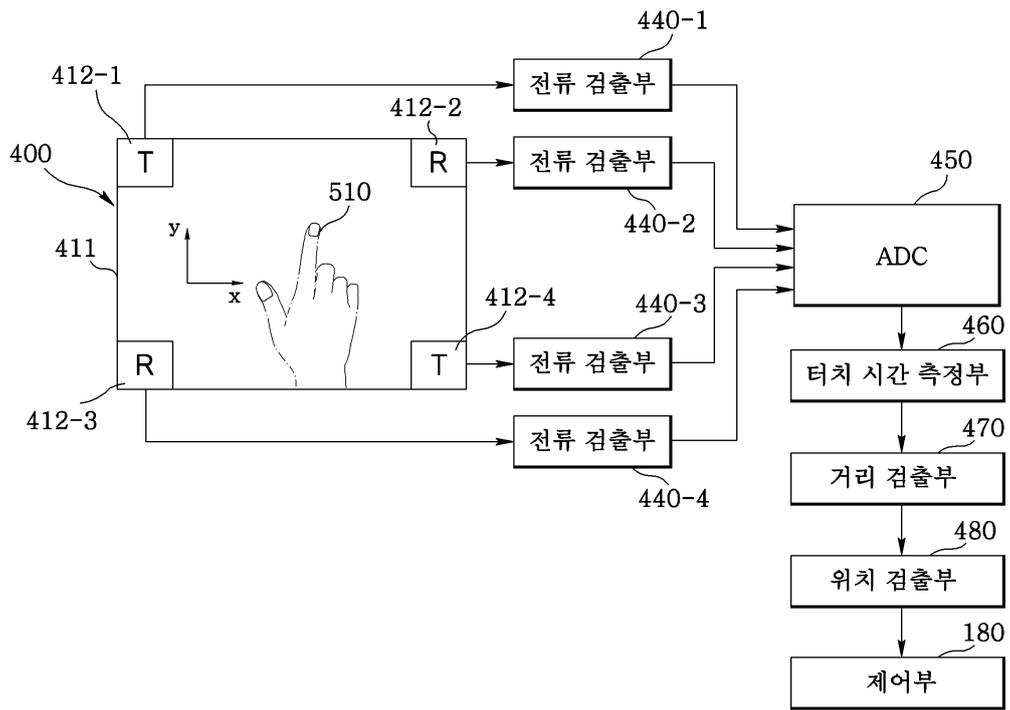
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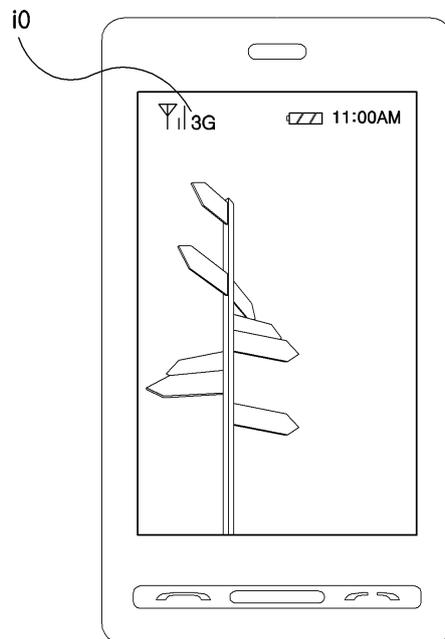
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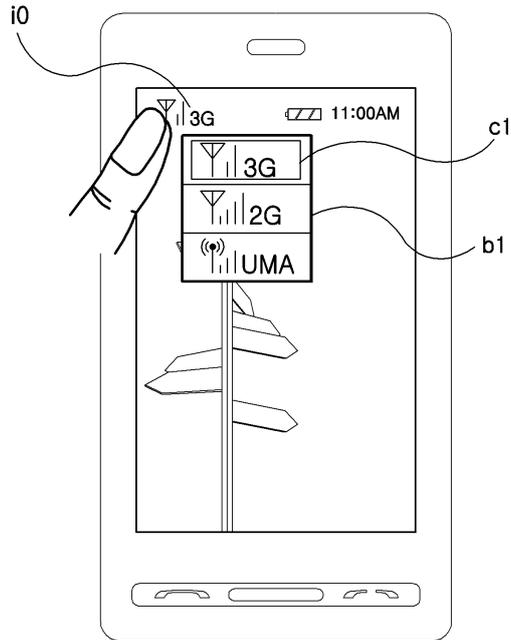
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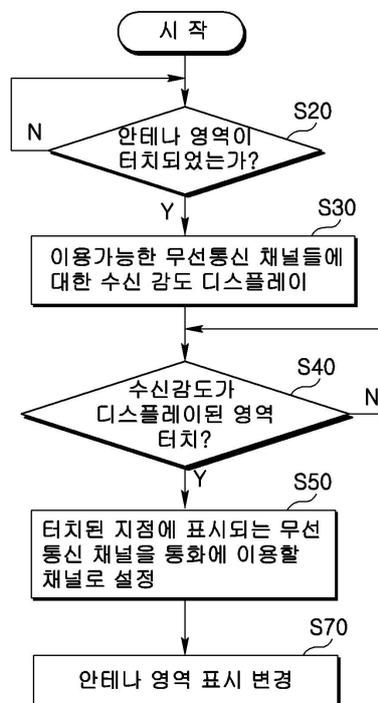
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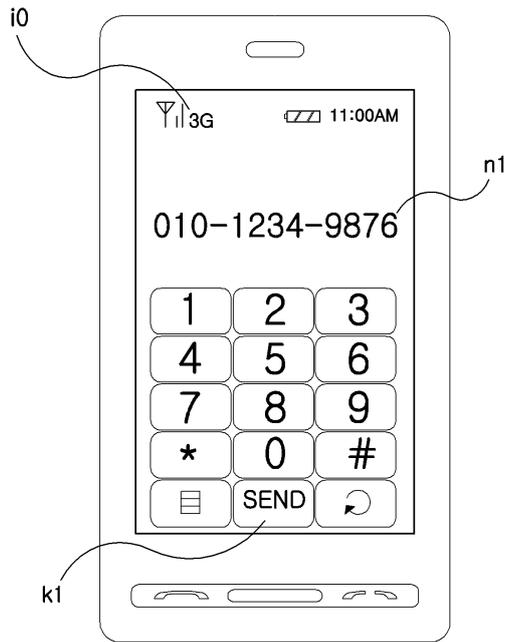
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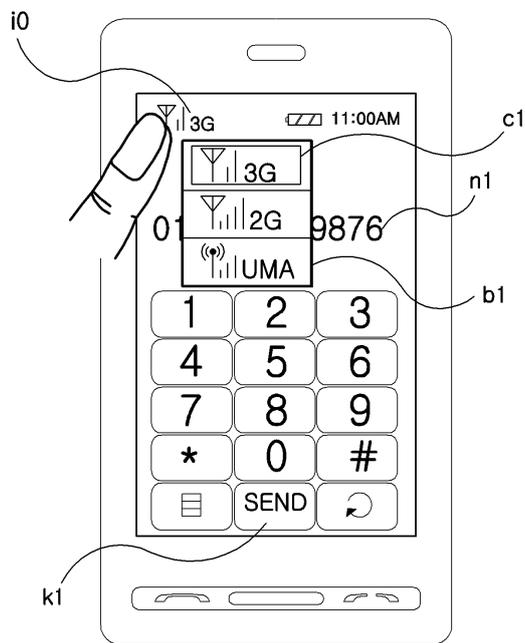
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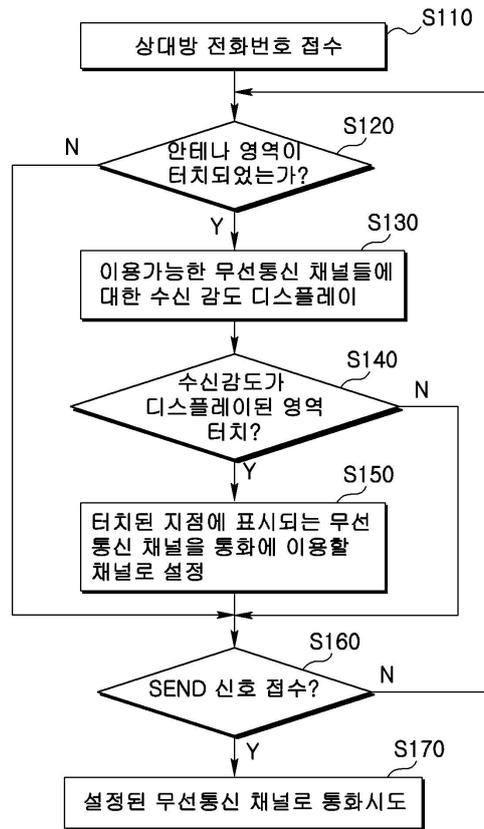
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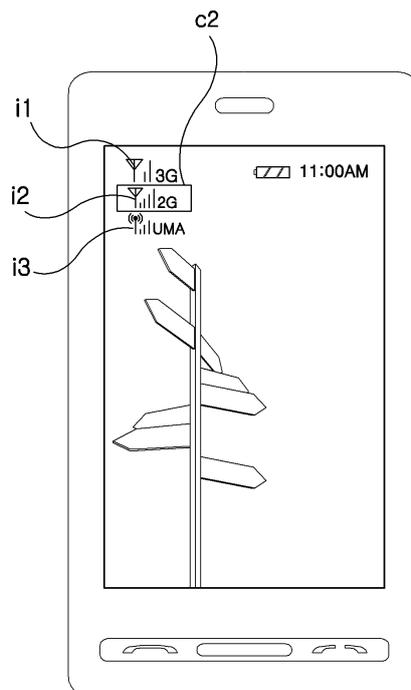
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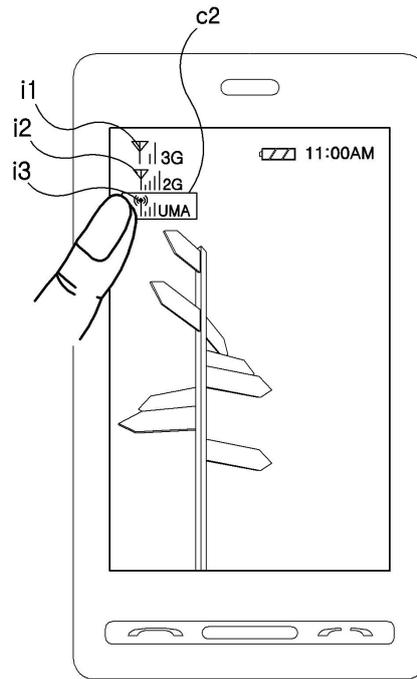
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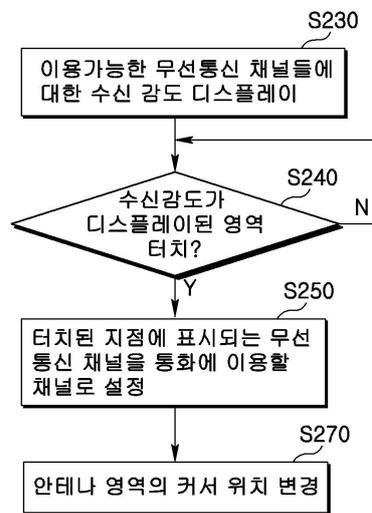
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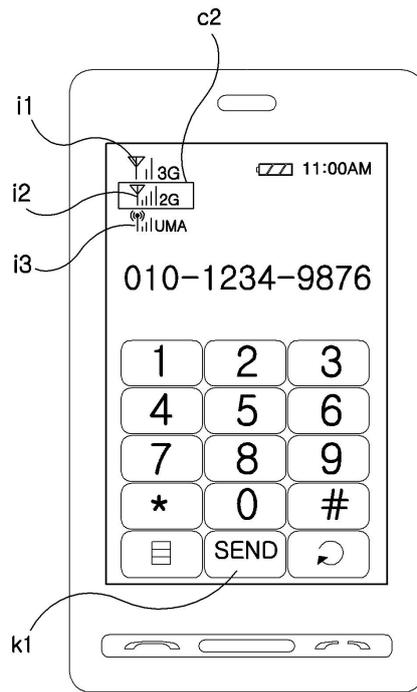
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15



16



17

