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(24) 2002 10 30

(21) 10 - 2000 - 0004282 (65) 2000 - 0076554
(22) 2000 01 28 (43) 2000 12 26

(30) 09/240,960 1999 01 29 (US)

(73) 10504

(72) 78730 5309
78759 6403

(74)

:

(54) , ,

(smart phone) 가 , , ,
, 가 , , , 가
, 가 , , , 가

1

1

2

3

4

5

6a - 6d e -

7 e -

8 (reminder)

가

가

가

, e -

(two - way)

(person information manager:PIM)

, 가

PC

PC

PIM

가

가

가

가

y badges)

가 (account number) 가 (identit

가 가

가 (ATM) 가 가 가

가 가 가

가 가 가

1 (100)

(head - end:102) (100)

(104) (104) (106 - 114 168 - 174)

(104)

(104) (106 - 114)

(radio tower:116) (118 120) (108 106) (118 120)

(116) (106 108) (radio freque
 ncy communications links) . (108) (cell - phone tower)
 - (dual - use phone) 가 , (104) (122 124)
 (110) (122) (satallite dish:126) (128)
 (124) (128) (110) (122 124) (126)
 (128) , (128) (110) (126) - (102) - (102)
 , (132) (128) (130) (130)
 , (134, 136 140) (114) (134)
 (142) (144) , (path)가 (104) (114)
 (122, 132, 134, 136, 140) (134)
 (coaxial cable), (fiber optic cable),
 " "

1 (136) (146) (148) (146)
 (144) (140) (148) (114)
 (mobile unit:112) (122, 132, 150)
 (150) (151) (112) , (130) (151)
 (142)

154, 136 140) (104) (114) (152, 154)
 가 (114) (152 154)
 (152) - (102) (156) (154)
 (156) (144)
 (104) (106 - 114)
 GPS - (navigation - type)

(100) (104) (160 162) (160)
 (166 152) (104) (162) (166 152)
 (104) 가 (160 162) 1 ,
 (168 170)가 (160) (172 174)가 (162)
 , PC 가 (160 162) ..

(168 - 174) , (104)
 가
 (160 162)

2 , 1 (104)
 (200) (system bus:206)
 (202 204) (symmetric multiprocessor:SMP) ..

08)가 (local memory:209) / (memory controller/cashe:2
 I/O (212) (206) . . I/O (I/O bus bridge:210) (206) ,
 / (208) I/O (210)

I/O (212) PCI(Peripheral Component Interconnect:PCI) (214) PCI (216)
 (218 - 220) PCI (216)
 4 PCI - (add - in connectors) 1
 (mobile unit) - (board) PCI (216) (21
 8) (adapter:220)

가 PCI (222 224) 가 PCI (226 228) 가
 PCI 가 가 (200)
 (multiple network computer) 가 (memory - mapped
 graphics adapter) (hard disk:232)가 I/O (:212)
 2 가
 가 가 ..

2 AIX(Advanced Interactive Executive)
 IBM Risc/ 6000

3 , 가
 (300) (cell phone), (mobile phone), (satellite phone),
 (300) (Intel Corporation)
 (Pentium processor) CPU(302) " "
 (300) (RAM) / (ROM) (304)

(300) (306) (306)
 , IBM (microdrive) (hard disk), (flash me
 mory) (300) I/O /
 (I/O) (308) , GPS (310) (313)
 (300) , (312) (314) (30
 0) 1 (104) (316) (two - way)

(300) (324) (display adapter)
 (300) (touch screen display) (LCD display)
 (command) 가 (324) , I/O (326)
 (328) (330)

4 가 , (450) e- 가 (450) 가
 (450) (browse)
 (454) (455) (450) 가 , e- (45)
 e- e- (452) . E -
 1) (450) 가 (Java Vitual Machine:JMV) (Java)
 (Window) CE . E -
 (451) e- (400) e- (499) . E - (451) e-
 e- 가 (reminder) . E - (400)
 가 e- (401) 가
 (402) e-

가 e- 가 ,
 가 (discount buyer club) , (id
 entity card)
 e- e-

e- 3
 e- 3
 e-

5 , 가 , 가
 e- 가 e- 가 (502).
 , e- 가 e- (504). e- e- (499)
 가 가 (450) e- (451) (506). e-
 가 (451) 가 e- (499) . 가 가 e- e-
 (451) e- (499) e- (452) (512).

, e-
 e- 가 . e- e-

6a - 6b , e- 가
 6a , (600) (450) 가 ,
 (Address Book:602), (Calculator:603), (Calendar:604), E- (E - Mail:605), NSP (NSP D
 irection:606), (Voice Mail:607), (Wallet:608) (Smart Phone

Application) (601) . E - (605) (607)
 (tool) . (602), (603), (604)
 PIM . "Method and A
 pparatus for Providing and Obtaining Routing Information Through Phone - Based Navigation"
 (AT9 - 99 - 028)
 (navigation service provider) .

6b , (610) 가 (electronic
 wallet application) (Smart Wallet Application)
 (611) . (Cash:612), (Coupon:613), E - (614), (Picture:615)
 (450) . (612) "Method and Apparatus for Tran
 smitting and Tendering Electronic Cash Using a Phone Wallet"
 (AT9 - 98
 - 915) . (613) "Method and Ap
 paratus for Phone - Based Receipt and Redemption of Electronic Coupons"
 (AT9 - 98 - 015) . (615)
 (browser) .

6c , (620) E - (621) . (Reminder:622), (S
 earch:623), (Transfer:624) (View:625) e - (452) e -
 (622) e - 가 e - 가 e - (452) e -
 가 가 (624) 가 가 e - e - (623) 가 가 e - (625)
 가 가 (450) e - .

(625) (615) . 가 가 e - , (61
 5)가 , (625)
 e - , /가
 , e
 /가 e - (scan) . /
 가 e - /가 가

6d , (630) E - (E - Document Transfer) (631) .
 (Accept:632), (Pospone:633) (Reject:634) e - (400) e - (4
 99) . 가 가 e - , e -
 (452) . 가 가 e - , 가 가
 e - , 가 가
 가 가

7 , e - (reminder) . E - (400)

(451) 가 (450) e- (451) (702). e-
(451) 가 (704). e- (451) 가 가
(706). e- (451) e- (452)
(708).

8 , 가 . ((801) 가 . (Acknowledge:8
800) E - (E - documents Reminders) (801) . (Acknowledge:8
02), (Make Appointment:803), (Make Payment:804)
(802) 가 가
(803) e- (604)
(804) 가
(612)

e- , e- (604) e-
e- , 가 가
e- 가 e- .

, e- e- 가 e- 가 가 가
. e- 가 가 가
가 , (450) 가 가 (450)
, e- 가 (451) 가 (450) e- e- 가 (450)
가

가 . 가 가
, 가 e- 가 e- , e- 가
e- e- 가 가 , 가,
. 가 가 가 가
. 가 가 가 .

가

가

, , CD -

가

(57)

1.

2.

1

(phone number)

3.

4.

3

5.

3

6.

3 ,

.

7.

3 ,

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8.

3 ,

(reminder messages)

9.

3 ,

10.

11.

12.

11 ,

13.

11 ,

14.

11 ,

15.

11 ,

16.

11 ,

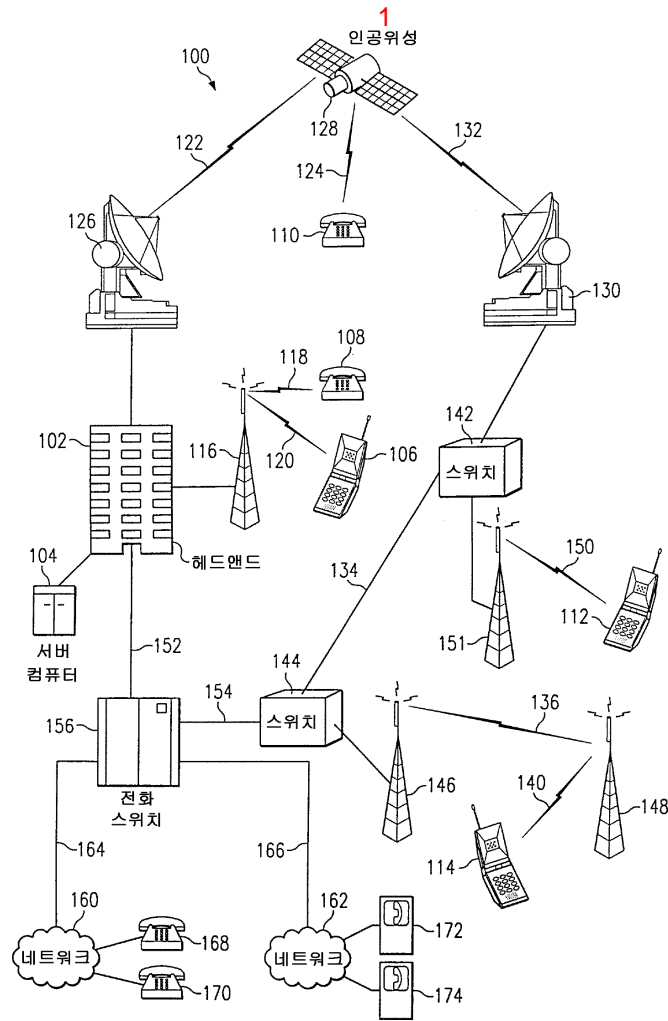
17.

11 ,

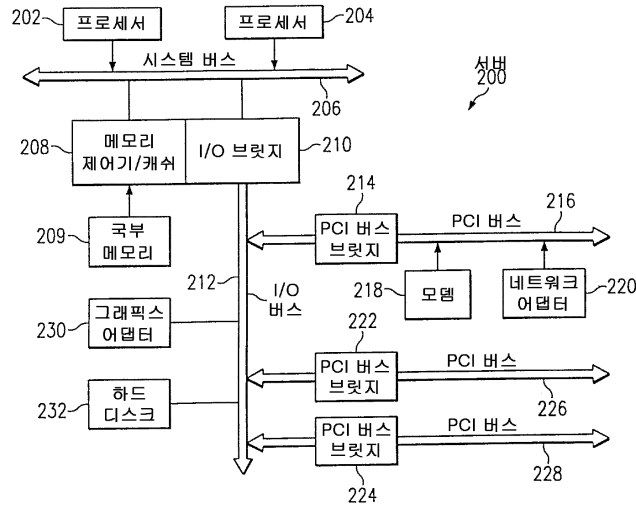
18.

1 3

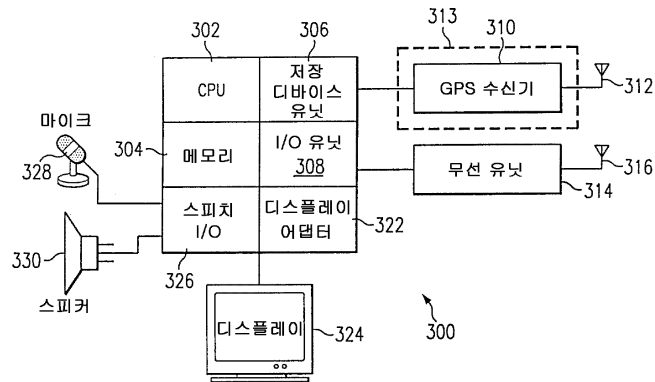
19.



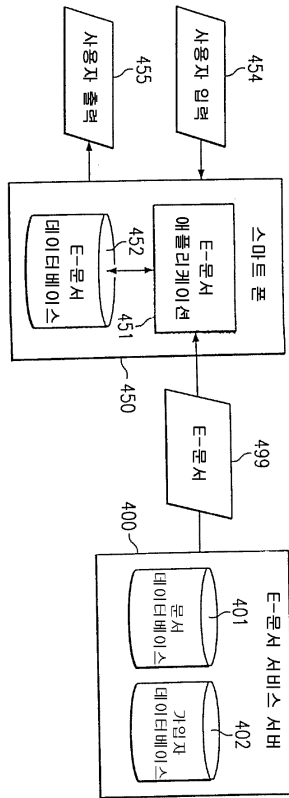
2



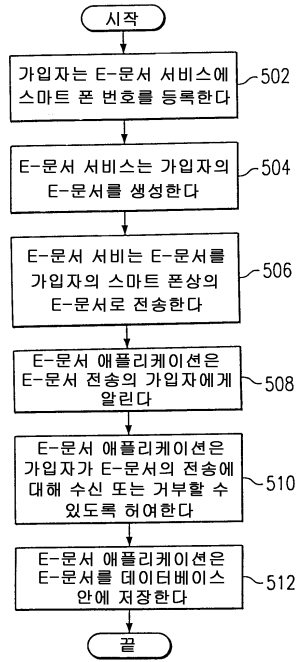
3



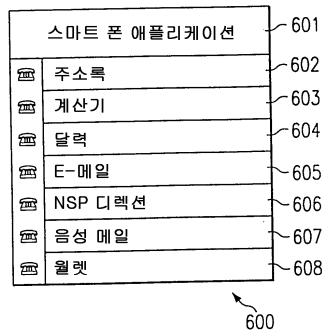
4



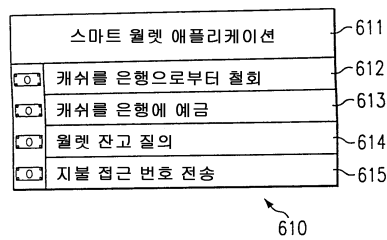
5



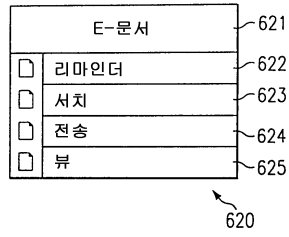
6a



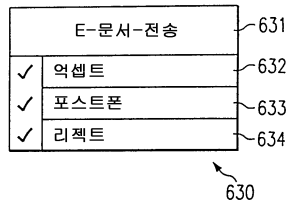
6b



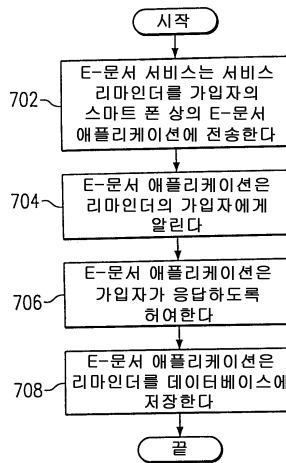
6c



6d



7



8

