

(19)  
(12)

(KR)  
(A)

(51) 。 Int. Cl. <sup>7</sup>  
H04B 3/54

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(43)

2002 - 0088654  
2002 11 29

(21) 10 - 2001 - 0027448  
(22) 2001 05 19

(71) 110 - 14(12/5) - 201

(72) 110 - 14(12/5) - 201

:

(54)

, 30GHZ - 24,000GHz  
가

; , (I/O) ,  
가 ,

3

, , , , ,

1 - AC

2 -

3 -

4 - 3

\*

10 :

20 :

30 : .

40 :

50 :

60 :

100 :

200 :

300 :

400 :

(電力線)

(PAN : Powerline Area Network)

(PLC : Power Line Communication)

가 가

( PLC )

PLC 1920

1MHz - 30MHz

LAN

가

PLC

가

가

, ( PAN ) PLC , 가

, PAN 1 , 가 (100) 30GHz - 2,400GHz (100)  
, 가

(100) , 2 MASER(3)  
SAL(Synthetic Aperture Lens : 4) 1

400) , 2 (100) (

2 , (Inductive Coupler : 1)  
(2) , 가 가 IP  
. Q - (5)

PAN

(100) (PAN)

, 30GHZ - 24,000GHZ 가  
(20) , (30) , (40) , (60) 가  
(400) (I/O) (50)  
(54) (50)가 (52, 53)  
(40) 가  $10^{-12}$  Volt

, 3 4

3

3, PAN (100)

(300) AC (10) DC (300)

(300) ( , , )

(20) (20) 가

(30) (40) (400) (60)

(400) (I/O) (50) (400) (60)

(20) 가 (兩指向性)

(40) 가 (400)가 가

(PTDF), (PVF) (nuclear piezoelectric film)

$10^{-12}$  Volt (50) 가

가 , PAN

(50) 4 CPU(51) , CLOCK(54), 가 ROM(52), (53)

가 GPS(Global Positioning System) , TDR(Time Domain Reflectometry)

CPU(51) ROM(52) (I/O) 가

(60) RJ - 11 (61) (63), USB RJ - 45 (50) CPU(51)

4 (60) (401, 402, 403)가 가

(50) CPU(51) TV 가

LED

PAN

(402) RJ - 45 (62) (50)  
 가 가 , (40) , (30)

(20) (30) (40) 가  
 (40) , (50) 가  
 RJ - 45 (62) 가 (63) , RJ - 11 (61) ,  
 (401, 402, 403)

, PAN

(57)

1.

30GHZ - 24,000GHZ ;

가

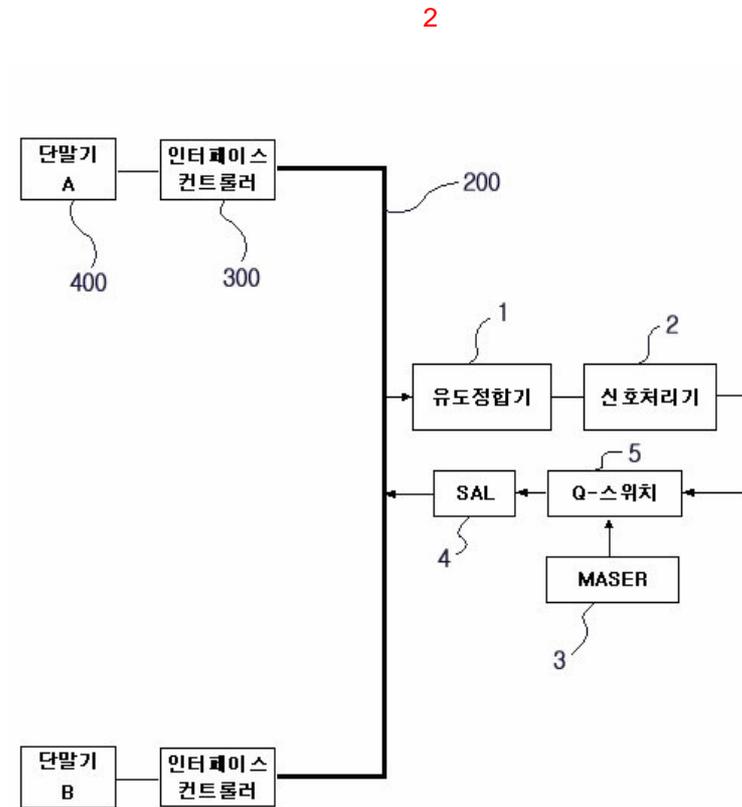
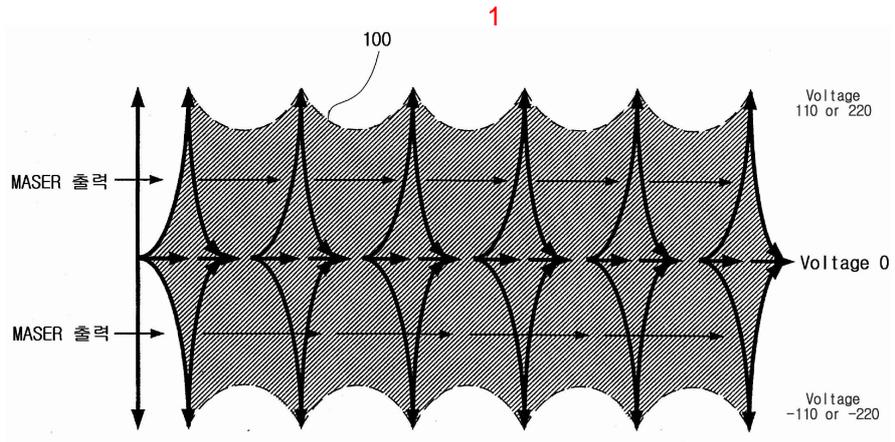
(I/O)

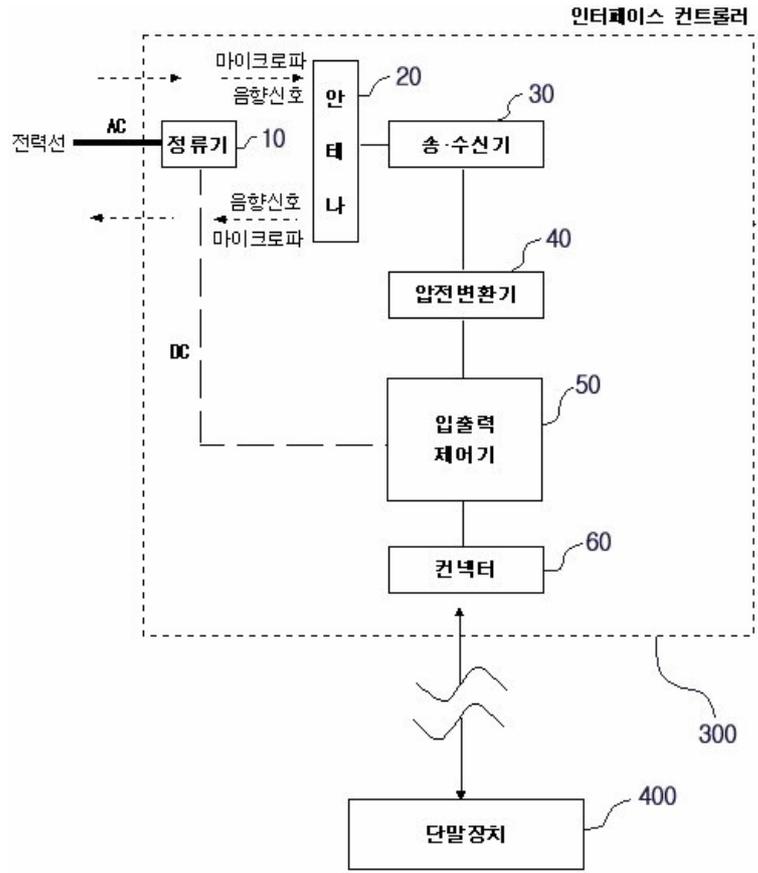
가

2.

1

10<sup>-12</sup> Volt





4

