

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl.⁷
H04B 3/54

(11)
(43)

10-2004-0009397
2004 01 31

(21) 10-2002-0043335
(22) 2002 07 23

(71) 416

(72) 3 10 305

(74)

:

(54)

, 1 2 , , 1
2

RC

3

1

2 가

3

* *

10 : 20 :

30 : 40 :

41 : 42 : RC

50 : 60 :

(Power Line Communication, PLC)
 KHz~ MHz 가 , 가 .

(PLC) 60Hz (Coupling) (100KHz 40
 0KHz)

1 , 1 1 2 (Isolation) , 1 2
 RC (1), (2) (1) 1 .

RC (C1) (2) , (1) 1 (1) 1 (R1) (C1),
 (PLC) (Harmonic Noise)

가 , 가 , 가 , 1
 , 가 , 가 , 가
 , 가 , 가

1 2 2 , 1
 , 1

2 가
 2 ,가 (10), (10) 가
 (Modulation) (30), (20),
 (40), (40) (50) (50)
 (60) (Demod
 ulation)
 3 2
 3 2 , (40) 1 2 (41) 1
 1 2 (Isolation) (41), (41)
 RC (42) (42)
 RC (42) (41) 1 (Line) (C1),
 (R1)
 , 1:1 , 1 100nF , 1M , (41) 1 2
 , 0.75mH, 30pF
 (C1) (R1)
 가 가
 (41) 2
 RC (42) (41) (가 100KHz
 400KHz)가 (41) 2

(57)

1. 1 2 , 1 ,
2. 1 , 1
3. 1

1 ,

RC

4.

3 ,

RC

1

5.

4 ,

100nF

1M

6.

5 ,

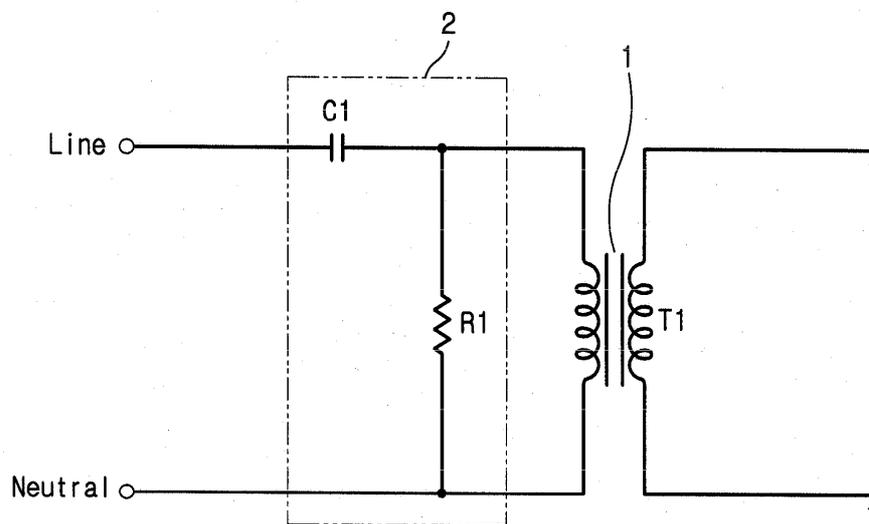
1

2

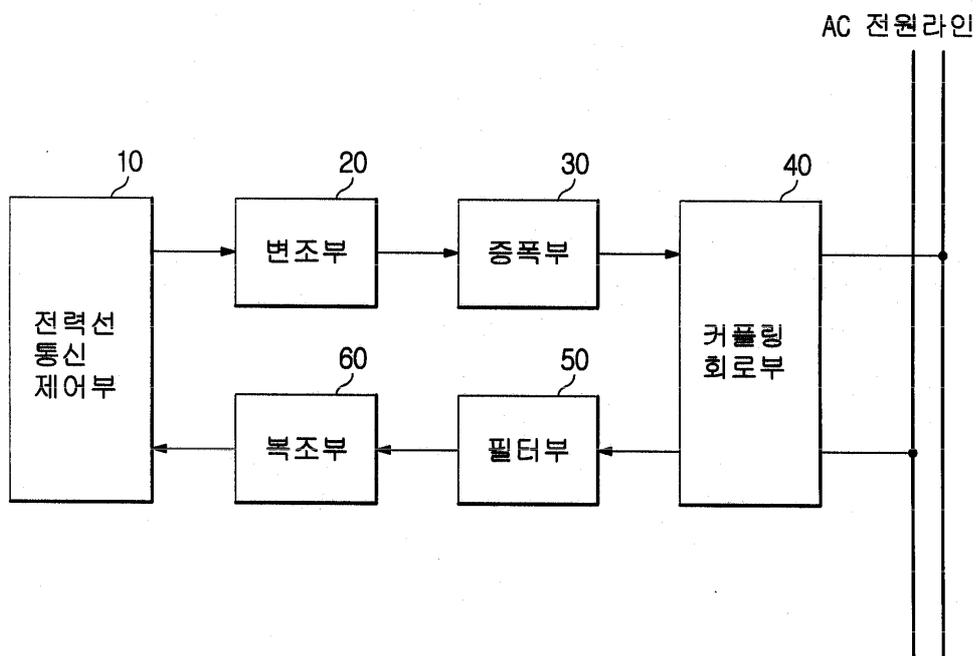
100KHz

400KHz

1



2



3

