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H02M 1/00

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10-2004-0007066
2004 01 24

(21) 10-2002-0041712
(22) 2002 07 16

(71) 3 314

(72) 802-802

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3748-2 8-503

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(Network)

가 /

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40 :
42 : 1
44 :
46 :
48 :

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41 :
43 : 2
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47 : (,)
49 :

/ , , (Network) , 가 / 가 (電力線通信)(Power Line Communication:PLC) (media) OFDM subcarrier 가 , , 10 Mbps , (Mega bps) (Base Station) (Home networking) (Kilo bps) 가 , , (Home networking) (Home data networking) (Home control networking) (Home Control Network) (1)X-10(60bps), (2)CEBus(8kbps), (3)LonWorks(4kbps) , (Home data networking) (1) PC (consumer elect , (2) PC , (3) , (4) 가 1 , 1 PC 가 1 (Home control networking) (1) , (2) /

가 2 , 2 , .

, 3 , 3 , 2 () ,
LAN (MAC) ,
LAN 가

(Networking)
가 가 , ,

(Network)

가 /

network 가 / 가 N

A/D

MAC

D/A

A/D

MAC

MAC D/A IP

MAC/IP

C/IP

MAC

MAC

MA

4 /

가

, 5 4 /

4 5 , / AC DC
 / (41) , / (41) ,
 (42) , A/D / (41) (42) ,
 , MAC , ,
 (42) (43) , (42) D/A ,
 A/D , MAC ,
 , D/A , (42)
 (44) .
 IP , / MAC
 (43) , (44) , (45) ,
 MAC/IP (45) , (45)
 MAC/IP (46) , (45) (47) ,
 (45) MAC ,
 (48) . MAC ,
 (42) / (41) ,
 (FHS) (41) / (41) ,
 (42-1) , / (41) ,
 (Fls) / (41) ,
 (42-2) .

4 5 , S/W , S/W ,
 , S/W , S/W , (MAC/PHY)
 , LAN ADSL .
 4 5 / AC DC , , ,
 / (41) (42) , (42)
 . (42) / (41) , ,
 (44) , (43) , (44)
 / (43) (41) .
 , (42) (42-1) / (41) (FHS,FLS)
 , (43) (FHS) / (41)
 (43) (43)
 / (41)
 , (42) (42-2) / (41)
 , (Fls)

(44) / (41) (44)

(43) (42) A/D

MAC (43) D/A

(42)

MAC(Media Access Control) IEEE가 가

MAC () LAN

MAC 6 IEEE MAC (hardware address), MAC (MAC-layer address), MAC (physical address)

MAC IP

ck up) (lo

(44) (42) A/D

MAC D/A (42)

(bridging) (45) MAC IP

(43) (44) MAC/IP

(45) (45) (46) MAC/IP (45)

(bridging)

(45) (47) (45)

(45) (48) MAC (45) MAC , MAC

(Network) 가

etwork 가 N

가 / 가 (,) 가 , 가

(ADSL) 가 , 가 / 가

가 가

(57)

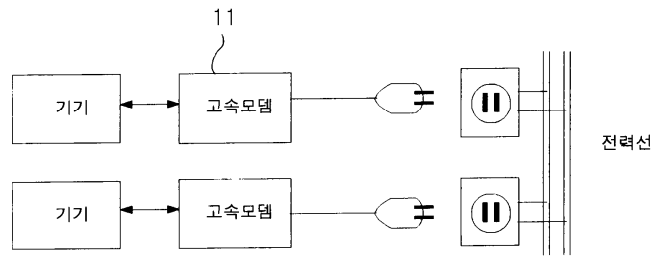
1.

AC DC , ,
 / (41); ,
 / (41) , / (41) (42);
 (42) A/D , MAC , D/A ,
 (42) (43);
 (42) A/D , MAC , D/A ,
 (42) (44);
 MAC IP (43)
 (44) , MAC/IP (45)
 MAC/IP (45) , (45)
 (45) MAC ,
 (47);
 (45) MAC ,
 (48); / .

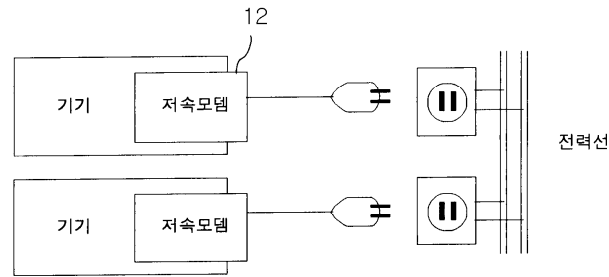
2.

1 , (42)
 / (41) , (FHS)
 , / (41) (42-1);
 / (41) , (FIs)
 , / (41) (42-2);
 / .

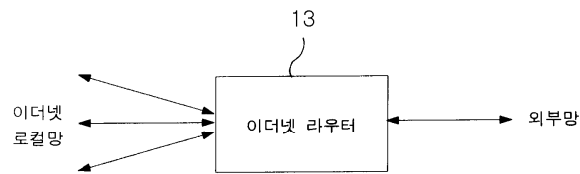
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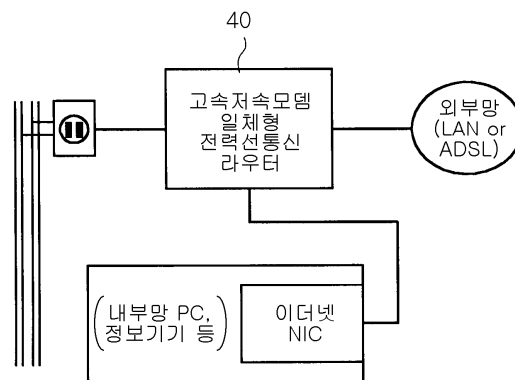
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