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106 1402

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(54) O A M C C

A T M

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가 .

2

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, O A M C C

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1	ATM		
2		OAM CC	ATM
3		OAM CC	ATM
4	2	OAM CC	ATM 2 (S2)
5	2	OAM CC	ATM 3 (S3)
6	2	OAM CC	ATM 5 (S5)
7	2	OAM CC	ATM 7 (S7)
8	2	OAM CC	ATM 8 (S8)
9	2	OAM CC	ATM 3 (S3)
10	2	OAM CC	ATM

100 : 200 : MCMU

210 : 300 :

310 : 311 :

320 : 321 :

400 : ATM

O A M (Operations and Maintenance; "OAM") C C (Continuous Check; "CC")
(Test Cell) A T M (Asynchronous Transfer Mode; "ATM")
, ATM (Line Card) (Sw

itching Test) OAM CC , ATM
O A M C C A T M .

ATM 1 , , ,
MCMU(Main CPU Module Unit; "MCMU" .)(1);
ATM 가 (2); (2)
ATM ATM (3) .

ATM MCMU(1) (4)
(2) VCI/VPI(Virtual Circuit Identical/Virtual Path Identical; "VCI/VPI"
.) (Call Setup) (Path) , ((2)
(3) ATM (4) ATM (3) ATM
(3) ATM (4) .

VCI/VPI ATM ATM ATM
ATM (Check) , 가 ATM
ATM ATM , ATM
ATM ATM , ATM
ATM ATM .

ATM , , ATM
O A M C C A T M .

O A M C C A T M ,
ATM 가 , MCMU;
; ATM ATM
ATM ATM ,
가 ATM , ATM
; , ATM
MCMU , ATM
ATM ATM ,
; ATM

, MCMU(200) (210) ATM
 , ATM (300)
 (300) ATM (100)
 , (300) ATM 가 , ATM
 (311) (Source Line Card)(310),
 (321) (Target Line Card)(320)
 , (310) (311) ATM
 (210) ATM OAM CC ATM
 (400) (320) , OAM CC (320) OA
 M CC ATM (400) OAM CC (2
 (320) OAM CC 10)
 , (320) (321) ATM
 (311) OAM CC ATM
 (311) (Loop - back) (400)
 , ATM (400) (300) , ATM
 , OAM CC 가 OAM CC ATM 10
 OAM CC ATM
 3 OAM CC ATM
 , (210) 10 (100) (310)
 (320) ID(Identification) 가 ATM (S1).
 , (210) (311) (321)
 (311) 가 ATM (S2).
 , 2 (S2) 4
 , (210) 10 (311) (
 321) (S2 - 1).
 , (210) (311) (321)
 가 (S2 - 2).
 , 2 - 2 (S2 - 2) (311) (321) 10
 , 가 ATM 가 (YES), (210) 10
 , 가 ATM (311) (S2 - 3).

, 2 - 2 (S2 - 2) (311) (321)
 가 (NO), (210) ATM 가
 (100) (100) (210) ATM
 가 (S2 - 4).

, 2 (S2) (311) (210) 10
 , ATM 가 OAM CC
 ATM (400) (S3). OAM CC (10) 9
 (321) ID 가 (10a), VC/VP
 가 OAM CC 가
 (10c) (10b),

, 3 (S3) 5
 (311) 10 (210) 가
 ATM (S3 - 1).

, (311) ATM VC/VP
 (S3 - 2).

, (311) ATM VC/VP 가
 (S3 - 3).

, 3 - 3 (S3 - 3) ATM 가 (YES),
 (311) 10 가 OAM CC (10)
 VC/VP ATM (400) (S3 - 4).

, 3 - 3 (S3 - 3) ATM 가 (NO),
 (311) ATM 가 (210)
 8 (S8) (S3 - 5).

, 3 (S3) , ATM (400) (311) OAM CC
 (10) 10
 (321) OAM CC (10) (S4).

, (321) ATM (400) OAM CC (10)
 , 10 ATM (400) (S5).

, 5 (S5) 6

, (321) 10 , ATM (400) OAM CC
 (10) (S5 - 1).

, (321) OAM CC (10) (10b) VC/VP
 (S5 - 2).

, (321) OAM CC (10) (10b) VC/VP
 가 (S5 - 3).

가 5 - 3 (S5 - 3) OAM CC (10) (10b) VC/VP (400)
 (YES), (321) 10 , ATM (S5 - 4).
 OAM CC (10) ATM (400)

가 5 - 3 (S5 - 3) OAM CC (10) (10b) VC/VP
 (NO), (321) ATM 가 (311) (210) ((311)
 321) ATM 가 ATM (100) ,
 , (210) ATM (100) ,
 (100) (210) ATM 가 (S8) (S5 - 5).
 8

가 5 (S5) , ATM (400) 10 , (S6).
 (321) OAM CC (10) (311)

가 (311) (321) OAM CC (10) , (210)
 ATM 10 ,
 (S7).

가 7 (S7) 7 .
 (311) (321) OAM CC (10)
 (S7 - 1).

가 7 - 1 (S7 - 1) (321) OAM CC (10)
 (YES), (311) OAM CC
 (10) OAM CC (10) (S7 - 2).

가 7 - 2 (S7 - 2) (321) OAM CC (10) O
 AM CC (10) (YES), (311) ATM (400)
 (300)가 (210) (S7 - 3).

가 7 - 1 (S7 - 1) (321) OAM CC (10)
 (NO), (311) ATM 가 (S7 - 4).
 (210) 8 (S8)

가 7 - 2 (S7 - 2) (321) OAM CC (10) (400)
 OAM CC (10) (NO), (311) ATM 8 (S8)
 (300)가 (210) (S7 - 5).

가 7 (S7) (210) (311) ATM
 (100) , (100) (S8).
 (210) ATM

가 8 (S8) 8 .
 (210) (311) ATM
 가 (S8 - 1).

, 8 - 1 (S8 - 1) (311) ATM
 가 (YES), (210) ATM 10
 (100) (100) (210) ATM
 (S8 - 2).

, 8 - 1 (S8 - 1) (311) ATM
 가 (NO), (210) ATM 가
 (100) (100) (210) ATM
 가 (S8 - 3).

O A M C C A T M , ATM
 OAM CC , ATM
 , ATM
 가 .

(57)

1.

; ATM 가 , ATM MCMU
 ; ATM ; ATM ATM
 ATM ATM , ATM
 가 ATM , ATM
 ;
 MCMU , ATM ATM
 ATM ATM ,
 ;

ATM
 OAM CC , OAM CC ATM ATM
 OAM CC OAM CC ATM
 ;

ATM , OAM CC
 O A M C C A T M .

2.

가 ID 가 ATM
 1 ;

가
가 ATM 2 ;

가 OAM CC 가 ATM ATM 3 ;

ATM 가 OAM CC 4 ;

가 ATM OAM CC ATM 5 ;

ATM 가 OAM CC 6 ;

가 OAM CC ATM 7 ;

가 ATM 8 OAM CC A

TM .

3.

2 ,

3 가 OAM CC , ID

가 ;

VC/VP 가 OAM CC 가 ;

M 가 OAM CC AT

4.

2 ,

2 , 가

2-1 ;

가 가

2-2 ;

2-2 가 ATM ATM 가

2-3 가 ATM ATM .

5.

4 ,

2-2 , 가

2-4 가 ATM 가 OAM CC ATM

.

6.

2 ,

3 , 가 ATM

3-1 ;

가 ATM VC/VP 3

-2 ;

가 ATM VC/VP 가

3-3 ;

3-3 ATM 가 , 가

가 OAM CC VC/VP ATM ATM 3-4

OAM CC ATM

7.

6 ,

3-3 ATM 가 ,

가 ATM 가 8

3-5 가 OAM CC ATM

8.

2 ,

5 , 가 ATM OAM CC 5-1

;

가 OAM CC VC/VP

5-2 ;

가 OAM CC VC/VP 가

5-3 ;

5-3 OAM CC VC/VP 가 ,

가 ATM OAM CC ATM ATM

5-4 OAM CC ATM

9.

8 ,

5 - 3 OAM CC VC/VP 가 ,
가 ATM 가
8 5 - 5 가 OAM CC
ATM .

10.

2 ,

7 , 가 OAM CC
7 - 1 ;

7 - 1 OAM CC ,
가 OAM CC OAM CC
7 - 2 ;

7 - 2 OAM CC OAM CC
, 가 ATM 가
7 - 3 OAM CC ATM
. A T M

11.

10 ,

7 - 1 OAM CC ,
가 ATM 가
8 7 - 4 가 OAM CC ATM
. A T M

12.

10 ,

7 - 2 OAM CC OAM CC
, 가 ATM 가
8 7 - 5 가 OAM
C C A T M .

13.

2 ,

8 , 가 ATM
가 8 - 1 ;

8 - 1 ATM 가 ,
가 ATM

8 - 2 OAM CC ATM .

14.

13

8 - 1

가 ATM
8 - 3

가

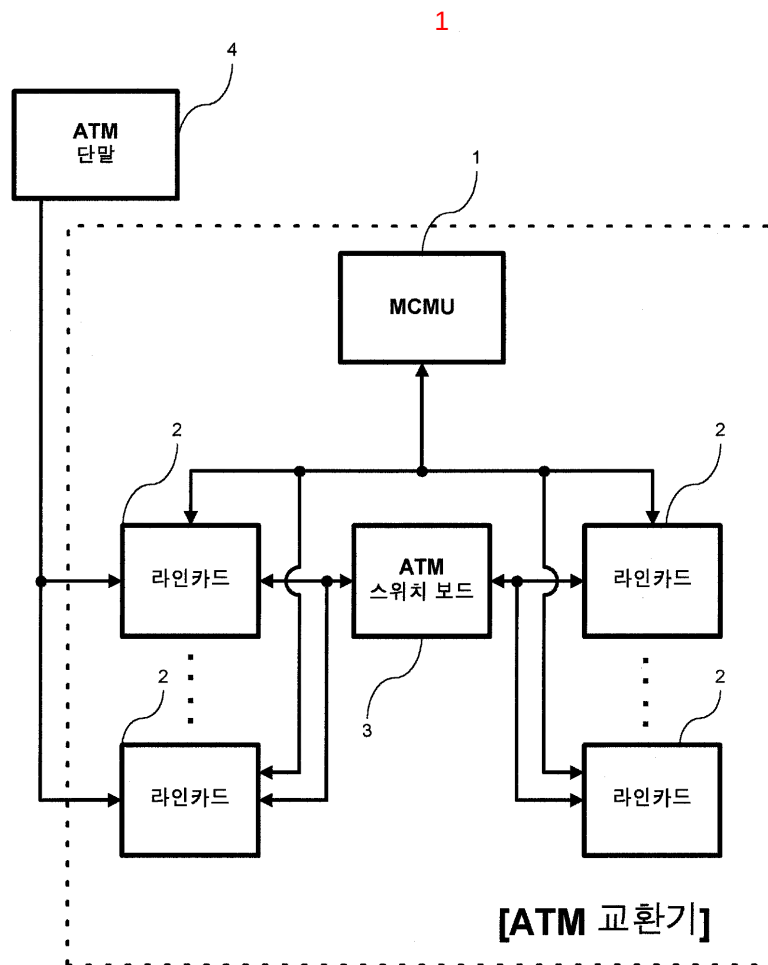
가

ATM

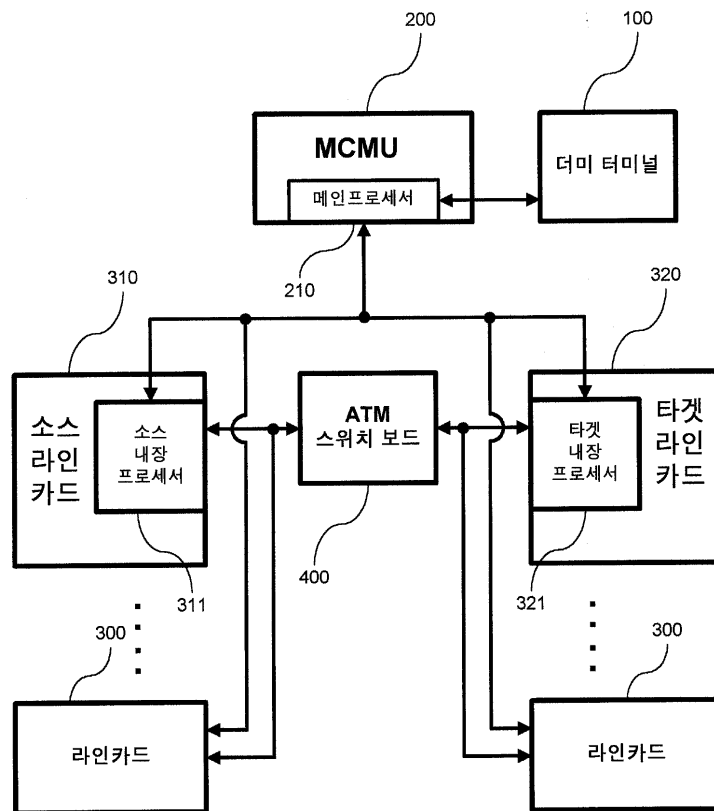
가

O A M C C

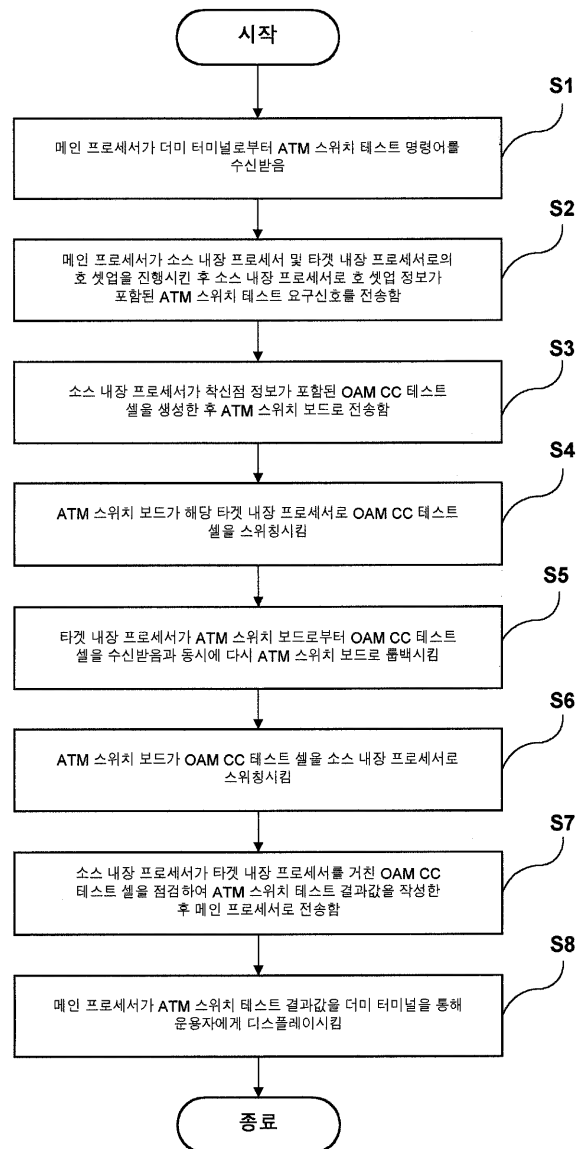
A T M



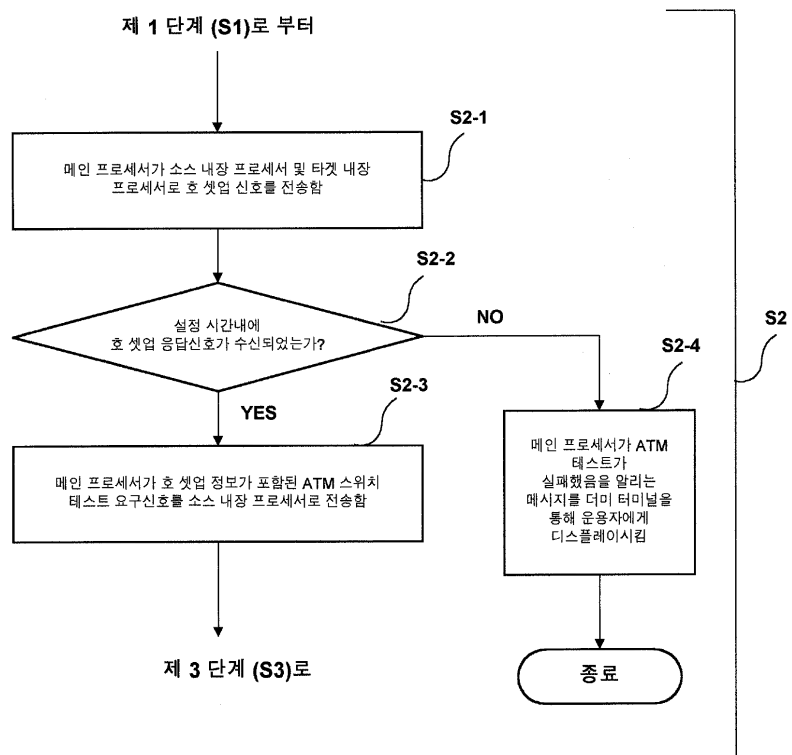
2



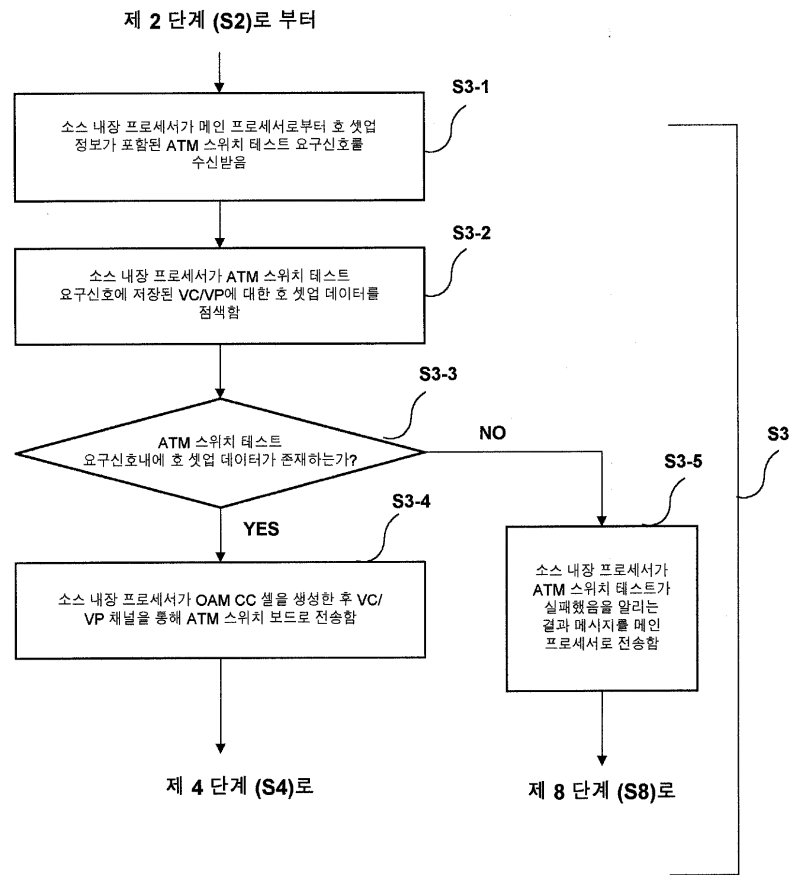
3



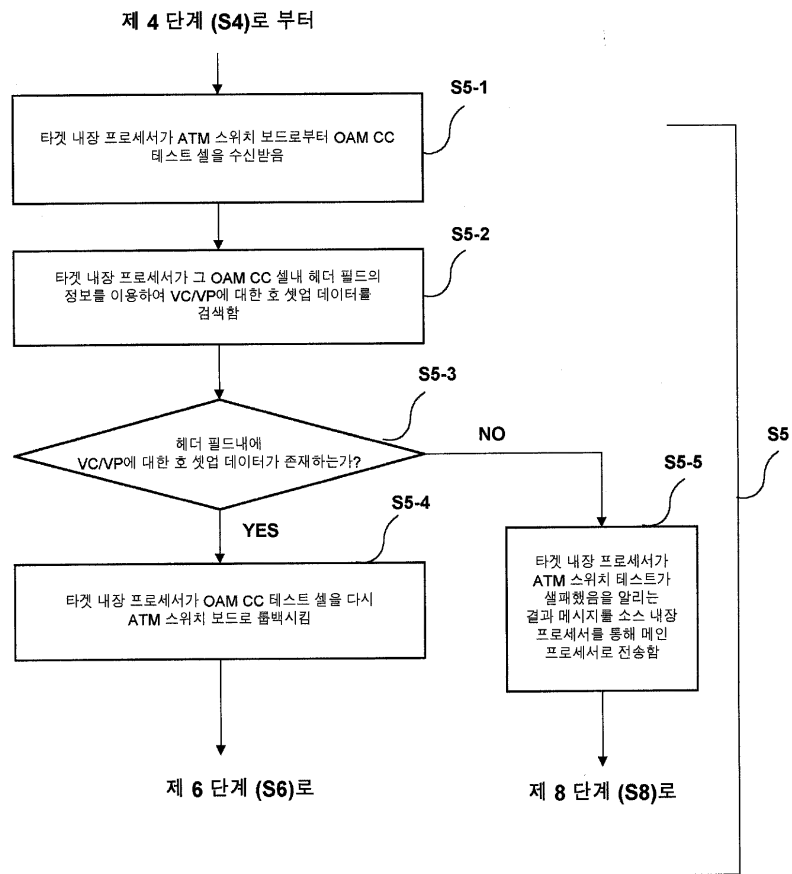
4



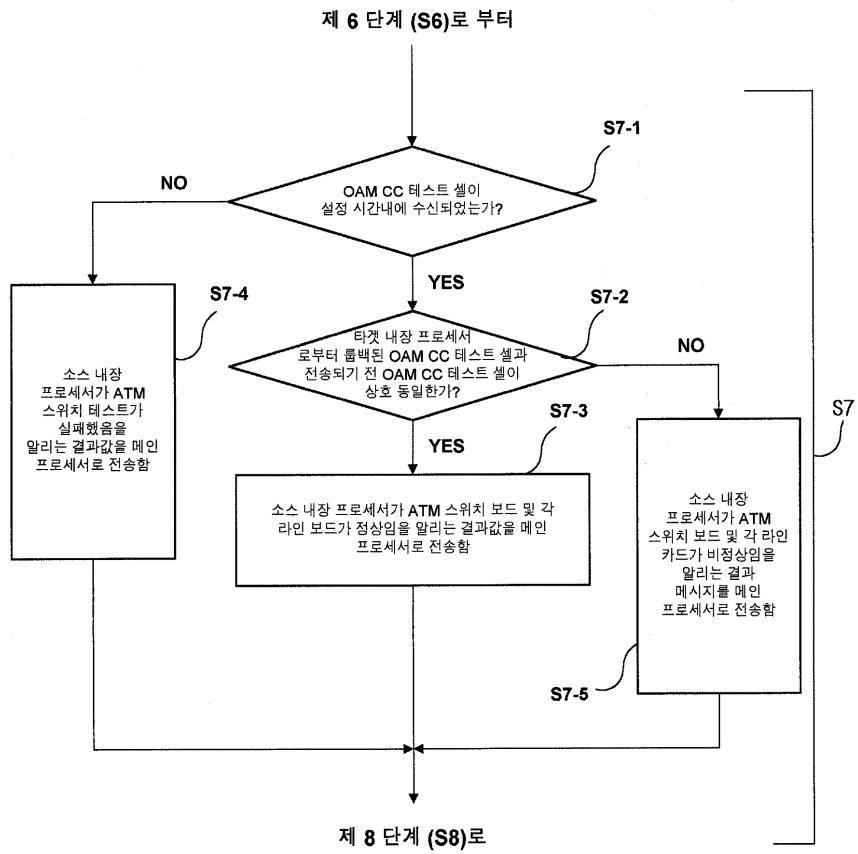
5



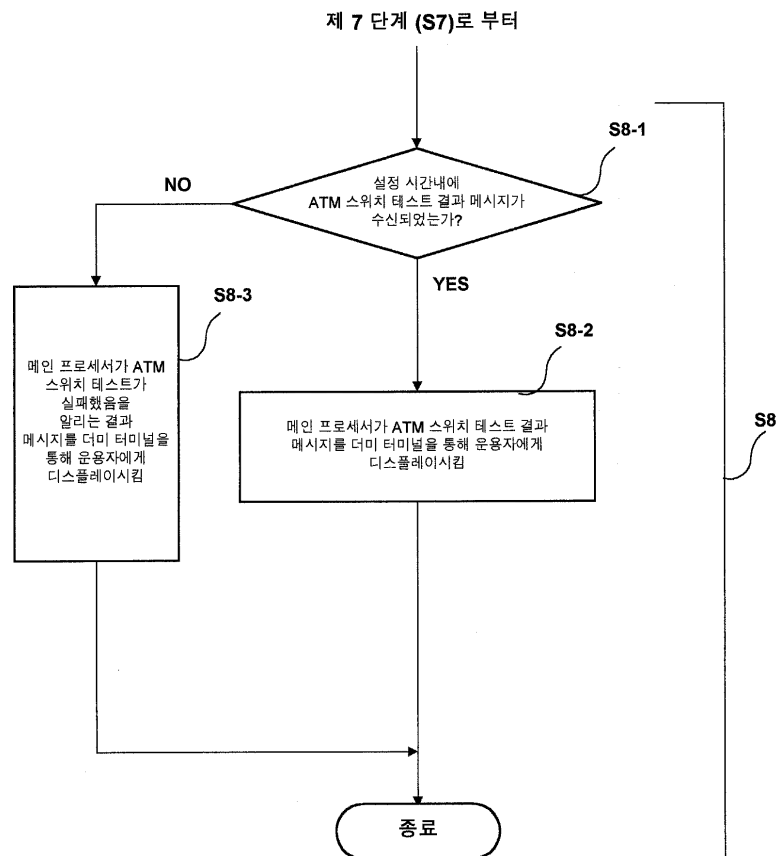
6



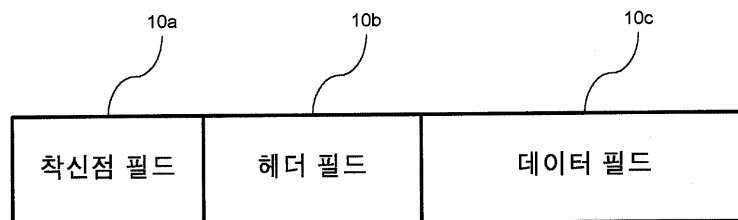
7



8



9



[oam cc 테스트 셀 (10)]

10

