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10-2004-0078379
2004 09 10

(21) 10-2003-0013307
(22) 2003 03 04

(71) 1 87 13 1 204

(72) 1 87 13 1 204

(74)
:

(54)

(100) (140)가 (100) (100) 8 (100) (200) (30) (CDC)
, (100) 가 (10) , (100) 8 (10) (30) , (200) (210)
, (100) 가 (202) , 8 (30) 8 (30) (10)
(100) (200) , (202) (202) (100) 가 (200) (105)
가 (102) , (100) 가 .

3

, , ,

1 가 ,

2 1 ,

3 ,

4 ,

5a 4 8 2 가 ,

5b 8 가 ,

5c 2 가 ,

6 2 ,

7 ,

8 ,

9 .

< >

10: (CDROM) 20:

30: 8 40:

50: (IDE)

100: (MMC) 101:

102: 가 103:

104: 105:

110: (Micro-controller) 111:

112: 113:

114: 115:

120: (RAM) 130: (ROM)

140: 150: (DAC)

200: 201:

202: 203:

210:

300: 310:

320: 330: (PC)

(CDROM Drive) (MP3 Player) (Compact Disc; CD;)
 , 2 (MP3 Data)가 가 1
 (MP3 Multi-Controller; MMC;) 가
 (CD Changer) 가 가 가
 가 가 가
 가 (Cassette Player), (CD Player)
 (PCM) , 12 cm
 74 80
 가
 CD 가 (MPEG Audio Layer-3 ;MP3) (MPEG)1 가 (TCP)
 (Audio On Demand ;AOD) CD 50 FM
 , CD (Personal Computer ;PC) (CDROM Driver) (CD-Writer)
 130 150
 가 가 (1
 가 가
 가 (CDC)
 가 8

(IDE) , (CDC)
 , 8 , 가 ,
 8
 가 .

1 가 , 3
 , 2 1 , 4
 , 5a 4 8
 2 가 가 , 5b , 5c
 8 2 가 가 , 6
 2 가 가 , 7
 , 8
 , 9 .

1 (201) 8 (30) (100) (200) (50)
) (10) 8 (30) (10) (10)
 , (140) (150) (40) (100) (10)
 , (30) (200) 가
 , (100) 2a 8 (30) 가
 (Serial Port)(101) , 가 가
 (102)가 .

2b (100) (50)
 (IDE Port)(103) , (10) (10)
 (104) , (10)
 (105)가 .

(100)

(10) , (100) 3 (100) (105)
 (20) , (200) (130)
 (140) (110) , (110)
 (130) , (10) (loading)
 (Buffering) (120) , (Decoding) (DAC)(150)
 (140) , (200) (150)
 , (200) (110) 가 (30)
 (200) 8 (30) 8 (30)
 (210) (202) (200) .

8 (30) (200) (201) 8 (30) , 4
 , 5 , 6 , 1 N.C, 7 , 2 , 8 , 3 , 4
 , (10) , 3 8 (30) 4 (200) (100) (100)
 , 4 (30) 3 (200) (100) 8 () 8
 2 8 (30) 3 (200) (200) (100) (202)
 (110) (100) (140)
 2 () (100) (200) 8 5a (30) 3 8 ()
 5a (10) 8 가 () (100)
 () 가 (200) 가 (202) , 2
 (Interrupt) 가 .
 8 () 5b 8 8
 , 4 8 (30) (200) , , 8
 , 8 (100) () , CD, 5 , 42 , 23
 , 2 ()가 , 5c (110) (140)
 , 2 ()가 (1,2) , (110) (140)
 , (5,7)가 , (2,5)가 3 , (7,5)가 5
 , 2 () 가 256가
 가 , 가 . 가 , 2
 () , , (100)
 , 2 () 2 가
 , (100) () (200) , (200)
) 2 (100) , (200) (200)
 6 (200) (300)

03) 3 (200) (201) (310) () (200) (2010) (2)

(310)

(320) 2 (PC)(330)

(330) 2 () 가 () 2

(Algorithm) 2 가 1 1 (matching) 2

(100) 가 (coding) () (100)

(200) (10)

(300) (100) (200) 2

가 (200) (10) 가

2 (110) (140) 2 (200) (202)

7 9 가 가 , 가

(10)

가 가 (20)

7 (200)

(130) (140) (110) (110)

(10)

(loading) (120) , (130)

(111) (110) (112) ,

(113)

(114)

(MCU)(110) (CPU) ,

가

, 256 RAM , 8KB ROM 가 가

8052

ND1C 가 EEPROM (110) AT89C51SND1C , AT89C51S

(One-chip) 가 가 (140)가

8 (140) (113) (150) (150)
) 8 (30) (200) (210) (20)
 0) (Digital to Analogue Converter; DAC)(150)
 (210) (140) (200) 가 (150)
 (150) (Sampling) 가
 D/A 가
 9 (112) 가 (PCB)
 가 (113) 가 (115)가 (IDE)
 (103)(IDE Port) (10) (IDE)
 (AT attachment packaged interface; ATAPI)

(100) (140)가 (100) (100) 8 (200) (30) (CDC) (200)
 (10) (10) (IDE) (50) (40) (200)
 (202) (CDC) (100) 8 (100)
 (30) (10) (200) (210) 가 (202)
 8 (30) (100) (10) (200)
 (100) (200) 가 (100) (105) 가
 (102) 가

(57)

1.

(buffering) (Decoding) (loading) (DAC) 8
 가 8

2.

1 256 RAM , 8KB ROM 가 가 8052

3.

1 ,

가 EEPROM

가
가 가 AT89C51SND1C ,

4.

3

;

;

(PC)

;

가

가 1 1

(matching)

(Algorithm)

;

(coding)

(

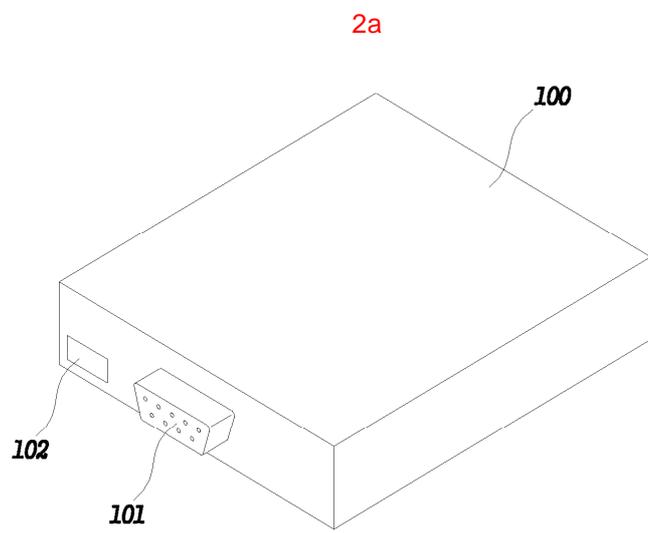
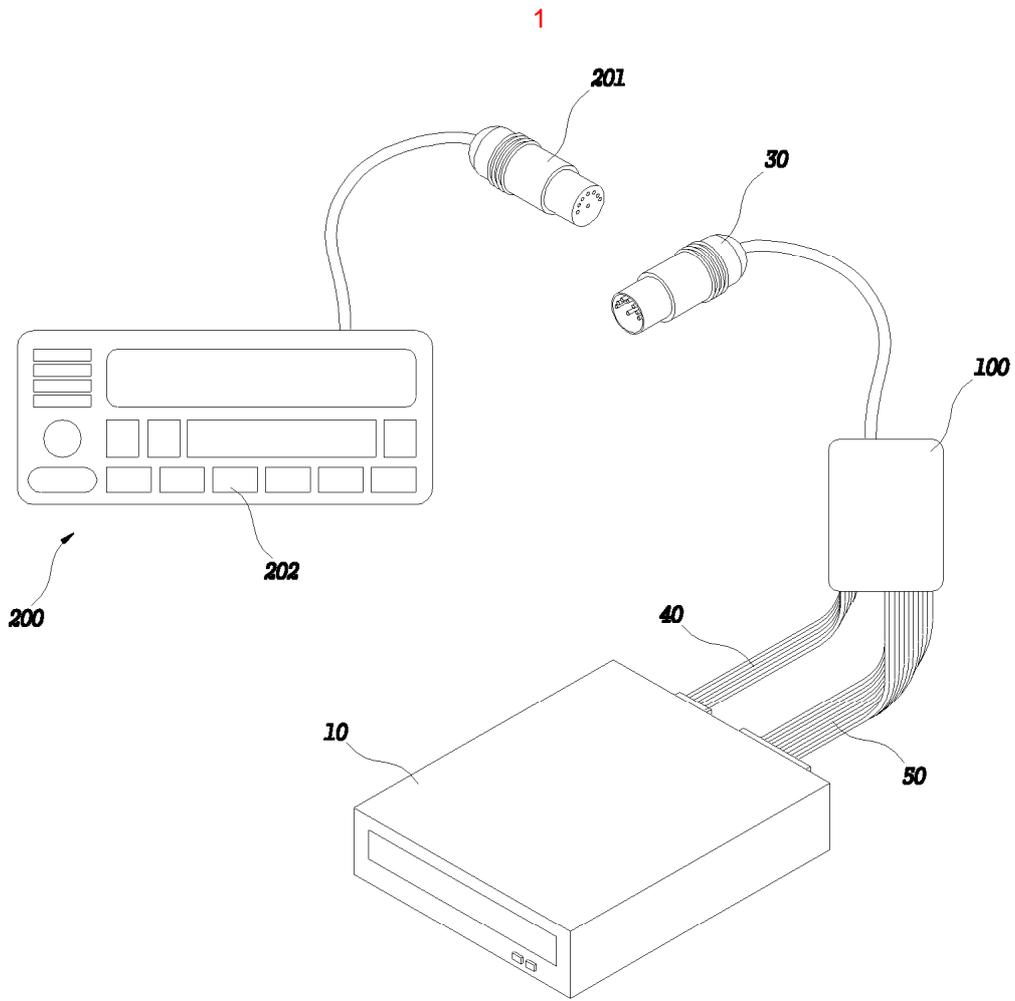
100)

5.

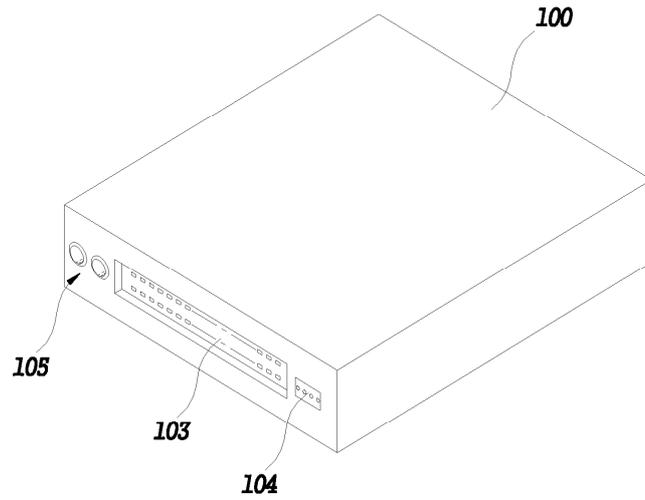
4 ,

2

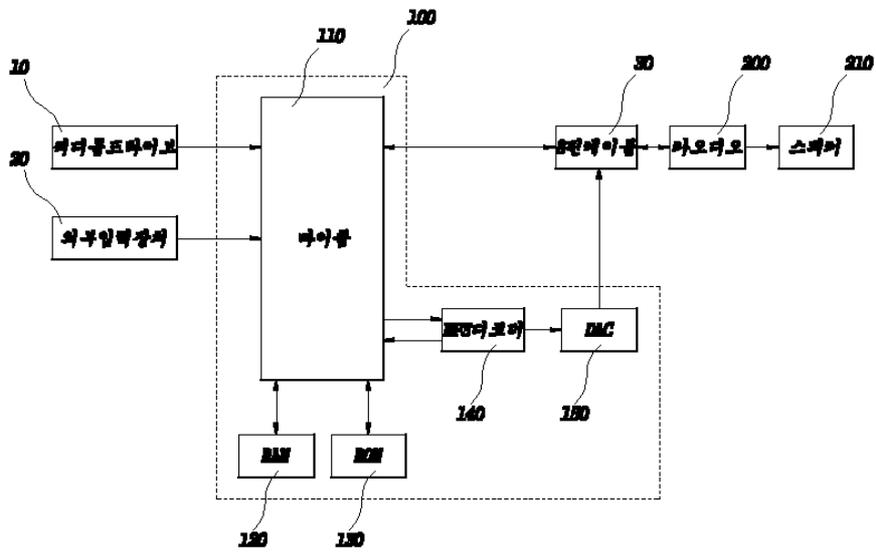
가



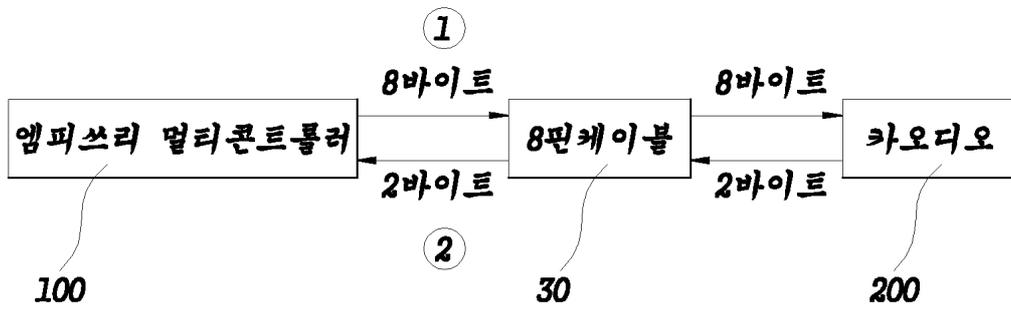
2b



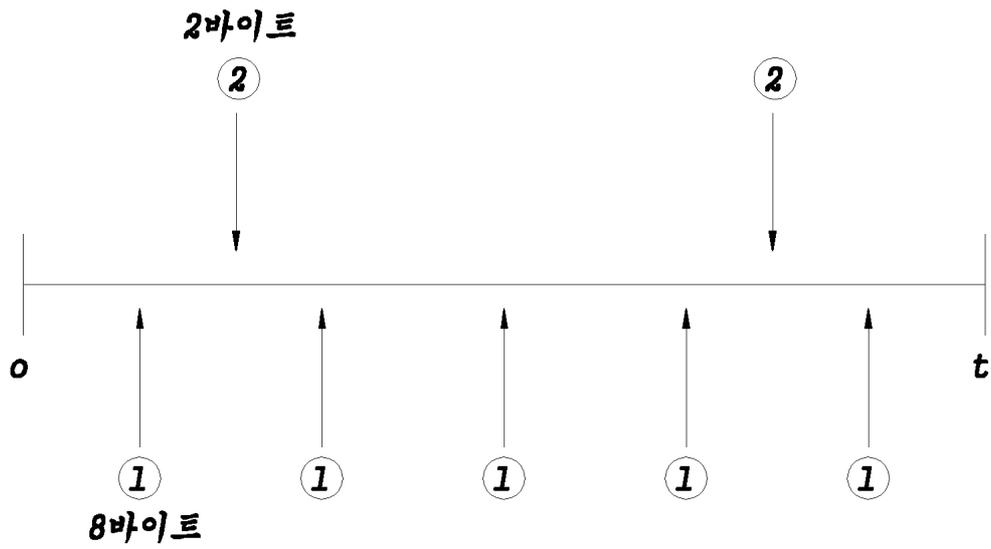
3



4



5a



5b

.	.	.	.	CD	트랙	분	초	재성
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.	.	.	.	CD	5트랙	42분	23초	CD플레이정보
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- .
- .
- .
- .
- .

5c

1	2
---	---

초기플레이 명령

2	5
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다음트랙플레이 명령

5	7
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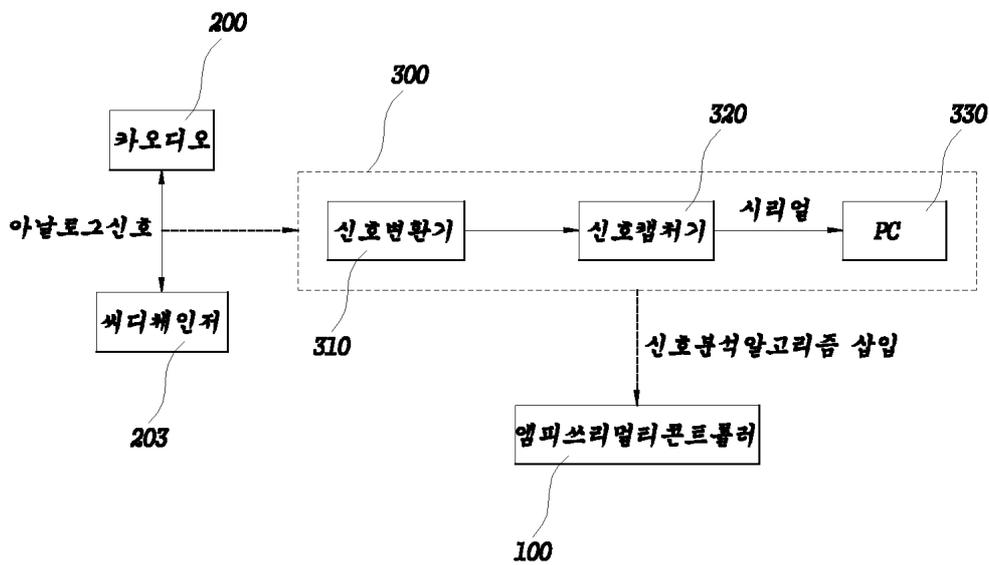
3번트랙플레이 명령

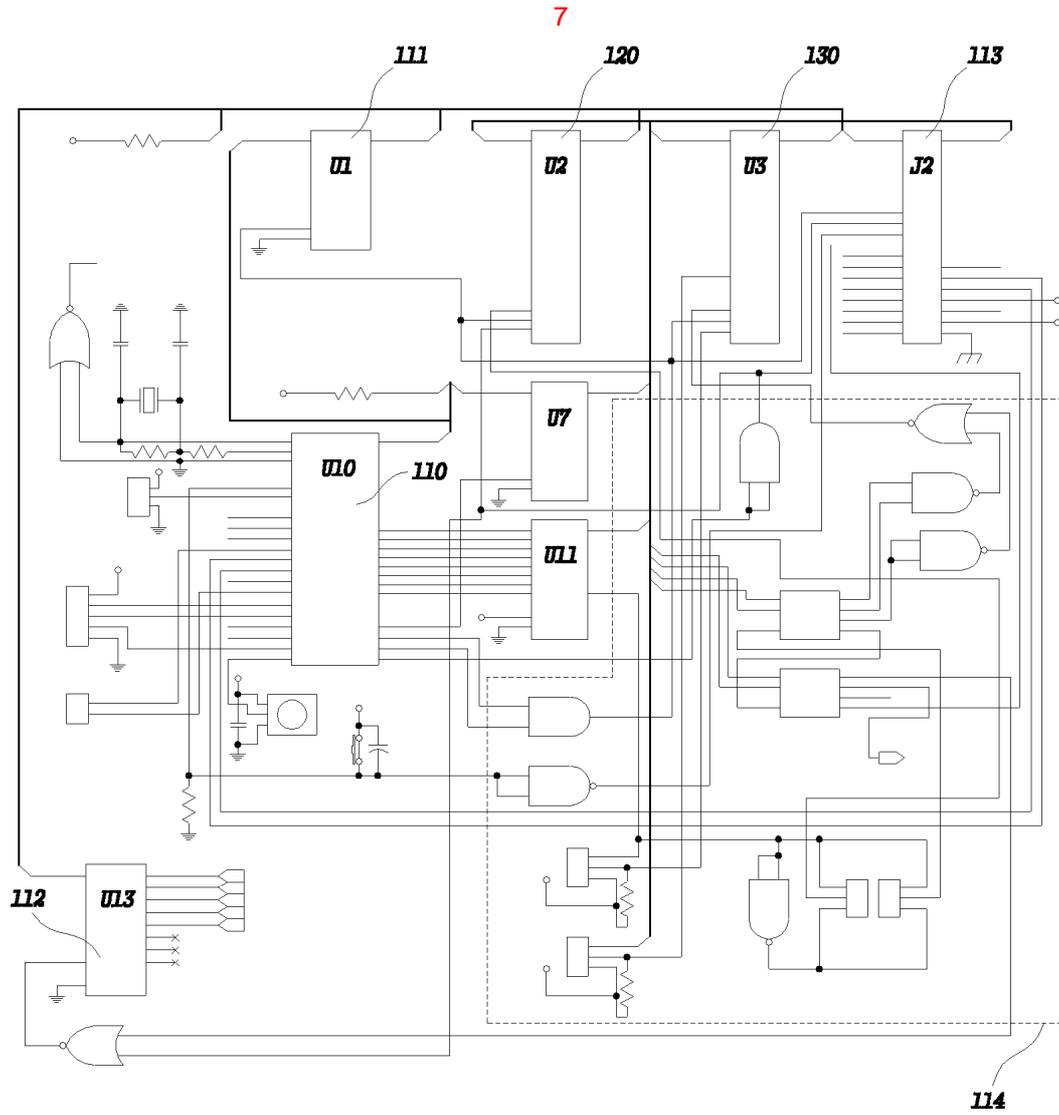
7	5
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5번트랙플레이 명령

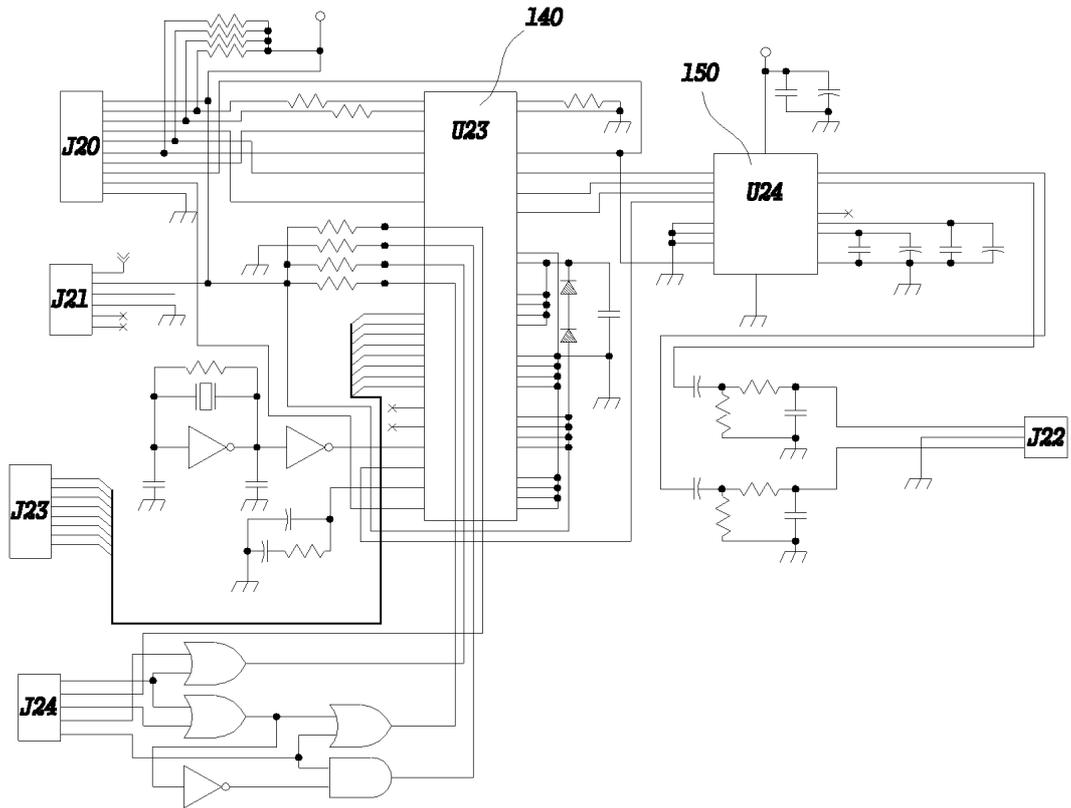
-
-
-
-
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6





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