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(30) 1020020035420

2002 06 24

(KR)

(71)

20

(72)

419-36

B01

110

111 204

337 14 03

897-5

606 503

18 701

C 306

(74)

:

(54)

(Segment)

가

(Segment)

가 (BD-RE : Blue-ray Disc Rewritable)

1 가 (BD-RE)
 BD-RE 'BDAV' (Directory)
 'info.bdav', 'menu.tidx', 'mark.tidx', '*.rpls', '*.vpls' (subdirectory), '*.clpi' MPEG-2 A/V CLIPINF STREAM 'info.bdav' PLAYLIST

1 BD-RE
 , STREAM (Clip) MPEG-2 A/V
 A/V (Bridge-clip A/V stream file)
 가 A/V (Source Packets) (Header) (Transport Packet) (SPNs : Source Packet Numbers)가 (PID : Packet Identifier)가 PID 가 (Sequence of Transport Packets) PID가 (Sequence Information), (Arrival Time Basis, ATC) 가 (System Time Basis, STC) PID 가 가 PID 가 (CPI : Characteristic Point Information) (Entry Point(EP) Map) EP (ATC) / (Time Stamp) CPI 가 (PLAYLIST (Playing Intervals) (Playitem) (PTs : Presentation Time Stamp) 가 IN-point OUT-point 가 (Map)

PLAYLIST (Real Playlist)(*.rpls) 가 (Virtual Playlist)(*.vpls)가
.가 , 가

'info.bdav' BDAV A/V PLAYLIST

'menu.tidx', 'menu.tdt1', 'menu.tdt2' thumbnails 'mark.tidx', 'mark.t
dt1', 'mark.tdt2' thumbnails

(BD-ROM : Blue-ray ROM)
, BD-ROM

가

가

(EP map)

EP

EP
(Representation Time)

가

1 가 (BD-RE) 가

2

3 2

4a 2 , , EP
 ,
 4b A/V EP ,
 5 ,
 6 7 2 , EP
 ,
 , BD-ROM , 2 , 1 BD
 -RE , 2
 2 (info.dvp), (menu.tidx, menu.tdt1), DVP 가 . DVP
 (*.vpls) PLAYLIST (*.clpi) (*.rpls) 가
 MPEG-2 A/V (*.m2ts) CLIPINF 가
 STREAM A/V MPEG-2 A/V , , -
 , 가 . A/V
 SPN)가 , 가 .
 (PID)가 , PID
 PID가 .
 CLIPINF A/V
 A/V , (ATC) , (STC) , 가 .
 D 가 . , 가 , , PI
 , PID 가
 (ATC) / (CPI) , CPI 가 EP , EP ,
 (STC) , ()
 PLAYLIST . (Playing Intervals) ,
 (Playitem) . (, ATC STC) 가
 IN-point OUT-point
 가 .
 PLAYLIST (Real Playlist)(*.rpls) 가 (Virtual Playlist)(*.vpls)가
 . 가 , 가

'info.dvp' A/V ,
 PLAYLIST .
 2 , , ,
 . 2 , (Database) , A/V 3 ,
 가 , 가 PL
 AYLIST , CLIPINF ,
 A/V A/V .
 (Chapters) ,
 BD-ROM , , 가 ,
 가 (Director's Version) . ,
 (Multipl
 e Reproduction Path Video Data) . ,
 가 .
 / , 가 .
 BD-ROM (*.m2ts) ,
 A/V MPEG-2 (TP) , TP
 (,) (PID)가
 (*.clpi) / PIDs
 가 (Path Sequence Information) .
 (Search Inform
 ation)가 ID
 (Entry Point(EP) Map) .
 4a 2 , , EP
 BD-ROM ,
 A/V MPEG-2 (TP) .
 TP (PI
 D)가 (,) 1
 가 4a 1(Segment #1) 1
 'video_PID=A' 'audio_PID=P' A/V TP (TP 1)
 2(Segment #2) 1, 2, 3 가 'video_P
 ID=A, B, C' 'audio_PID=P, R, S' TP TP
 TP 1 1 가 3(Segment #3) A/V TP (TP 1)
 'video_PID=A' 'audio_PID=P' .
 A/V
 (Path Sequence Information)
 , 4a , (Segment number)

(Sequence number) / PIDs(video_PID audio_PID)가 .

'audio_PID=P' 가 #1 , 1 가 'video_PID=A' , #2 , 1, 2, 3 가
 'video_PID=A, B, C' 'audio_PID=P, R, S' 가 #3 , 1 가 'video_PID=A' 'audio_PID=P' 가 .

(TP) #2 SPN(A), SPN(B), SP
 N(C)가 (SPN) 가 1(, video_PID=A)
 , SPN(B) 2(, video_PID=B)
 , SPN(C) 3(, video_PID=C) .

(Search Information)가 #1 #3 TP (PTSs)
 (SPNs) (mapping) EP .

EP 4a , 1, 2, 3
 EP 1, 2, 3 .

4b EP (Time Alignment) . E
 P (mapping) .

(SPN) 4b 1, 2, 3
 가 1 , EP 1, 2, 3
 , z1 T1 , EP map 1, 2, 3 y1, 3
 , 가 가 가 y2 4
 B A , 가 , x3가 C
 (,) , , x4 x4 A z5가 .

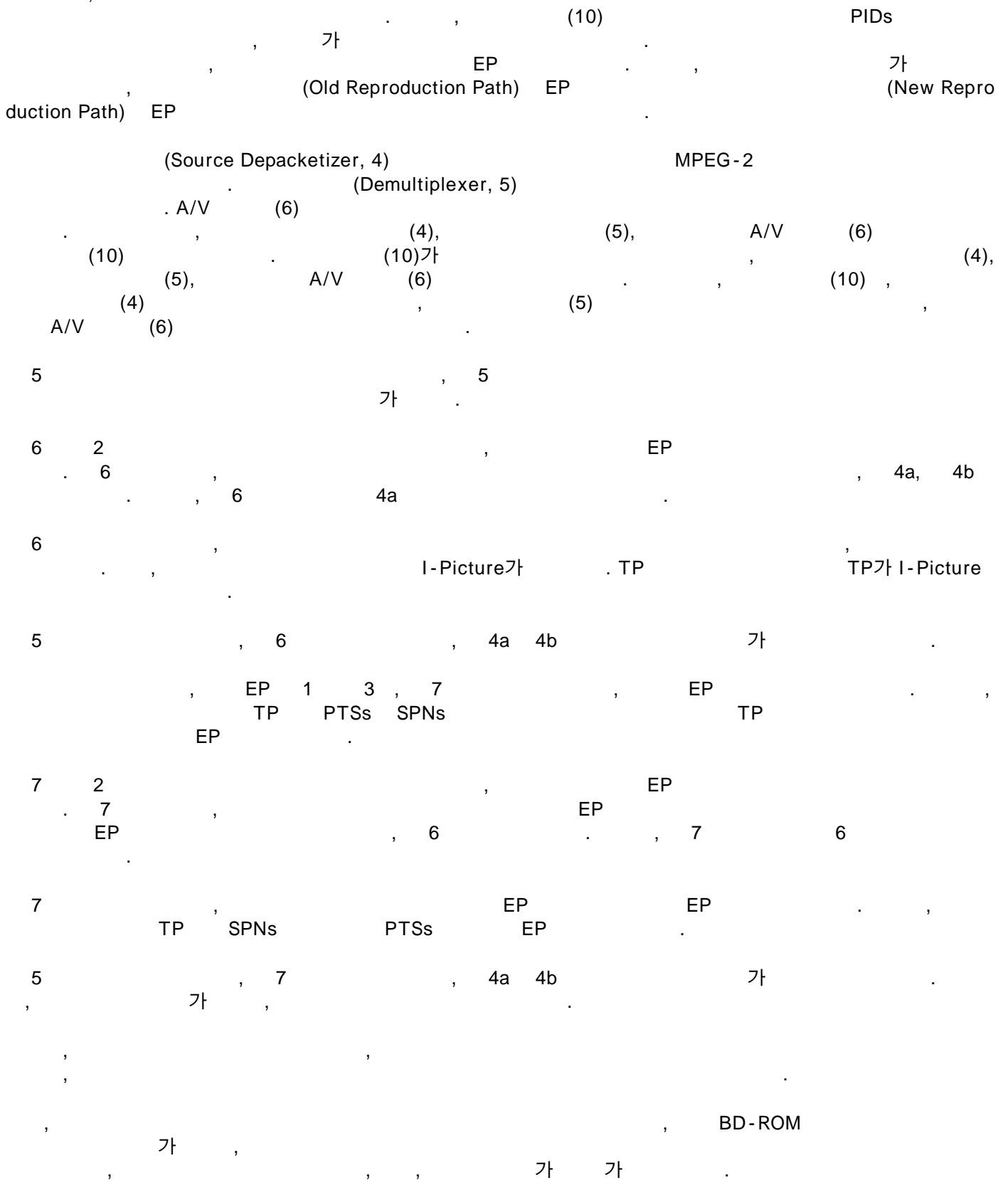
5 . A/V (9) ,
 (8) , , MPEG-2 (MPEG-2 transport stream) , (Multiplexer, 8) .
 ketizer, 7) (Source pac

5 , A/V (9), (8), (7)
 (10) (10)가 (7) , , A/V (9),
 V (9) (8), (7) , (8) , (10) , A/
) (7) (3) . , (10) (7)

(10) (3) (10) 2 4a, 4b
 (3) (10)

(10) (3) ,
 (10) (10) (3)

(10) GUI(Graphical User Interface) , ,
 (10) .



(57)

1.

가

1 2.

2 3.

(EP map: Entry Point map)

EP

3 4.

EP

3 5.

EP

1 6.

6 7.

(I-Picture : Intra-coded Picture)

7 8.

I-Picture

6 9.

EP

EP

10.

9

EP

11.

9

EP

12.

6

EP

EP

13.

9

EP

14.

1

15.

1

가

16.

,

, ,

가

17.

16

,

가

18.

16

,

19.

16

,

EP

, ,

EP

20.

6

,

EP

, ,

EP

21.

,

, ,

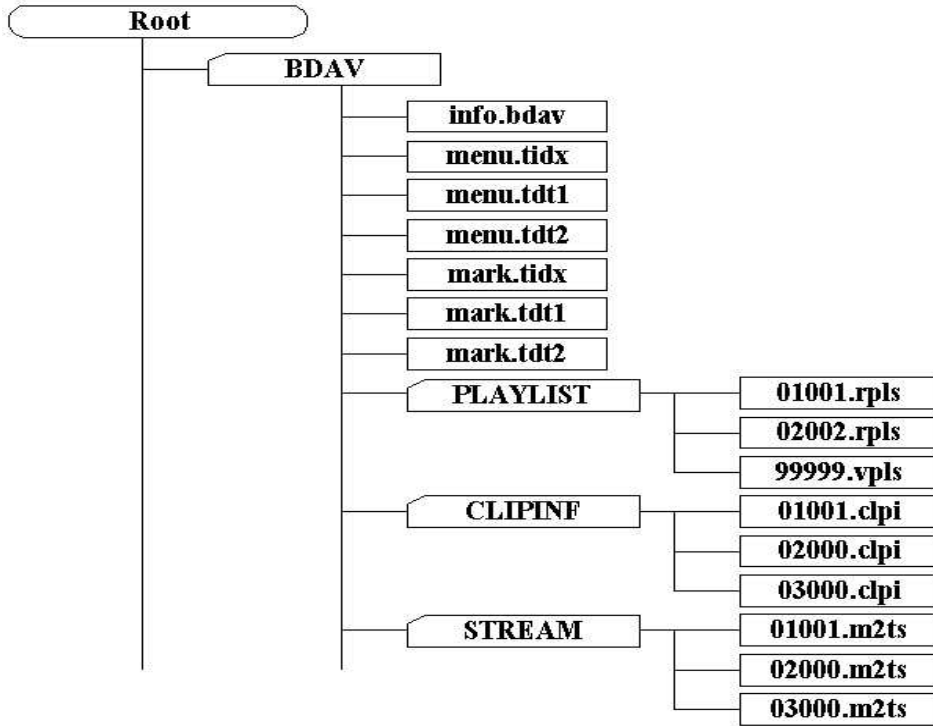
22.

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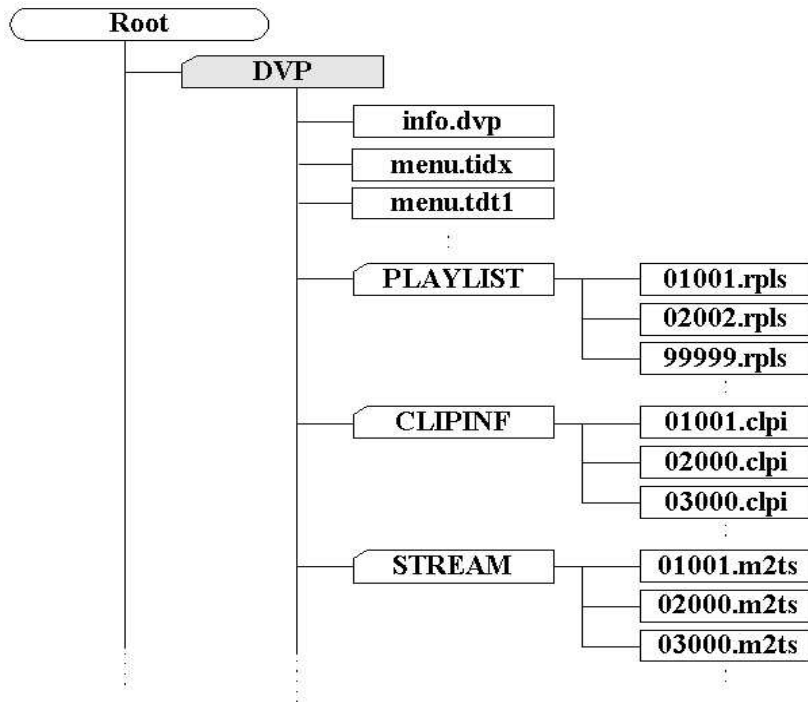
23.

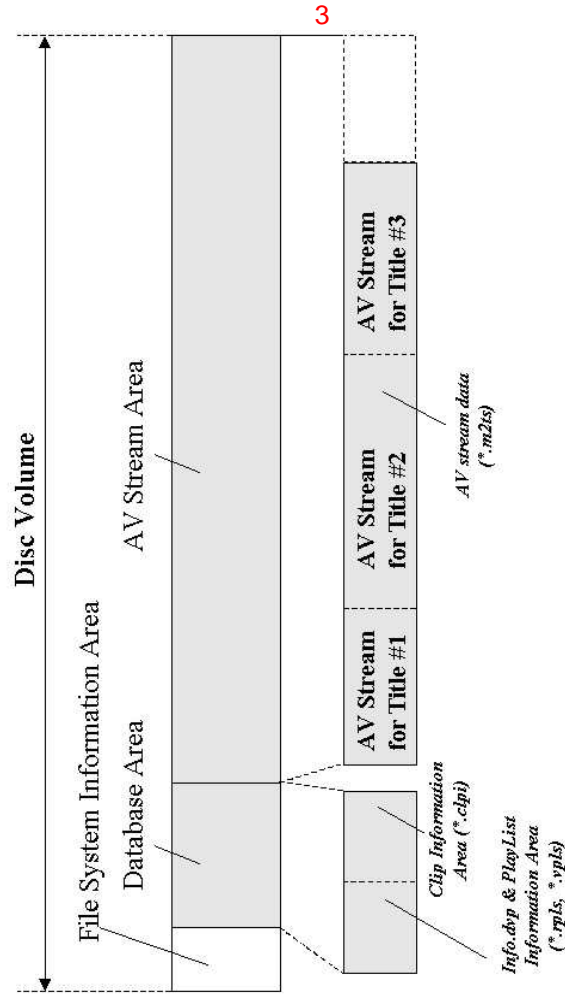
24.

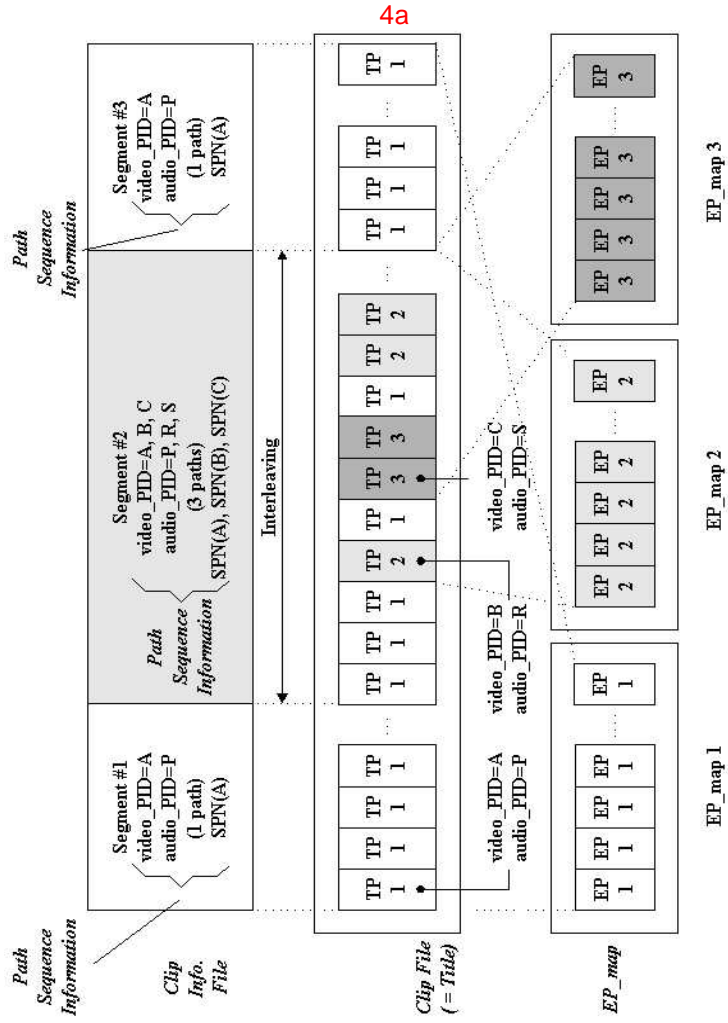
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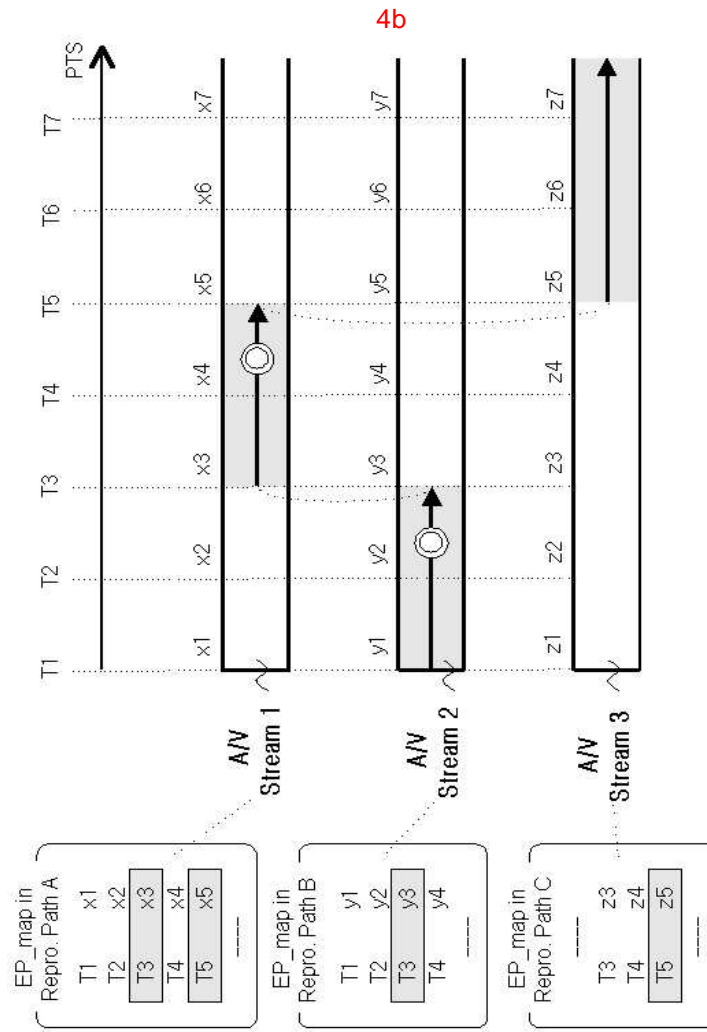


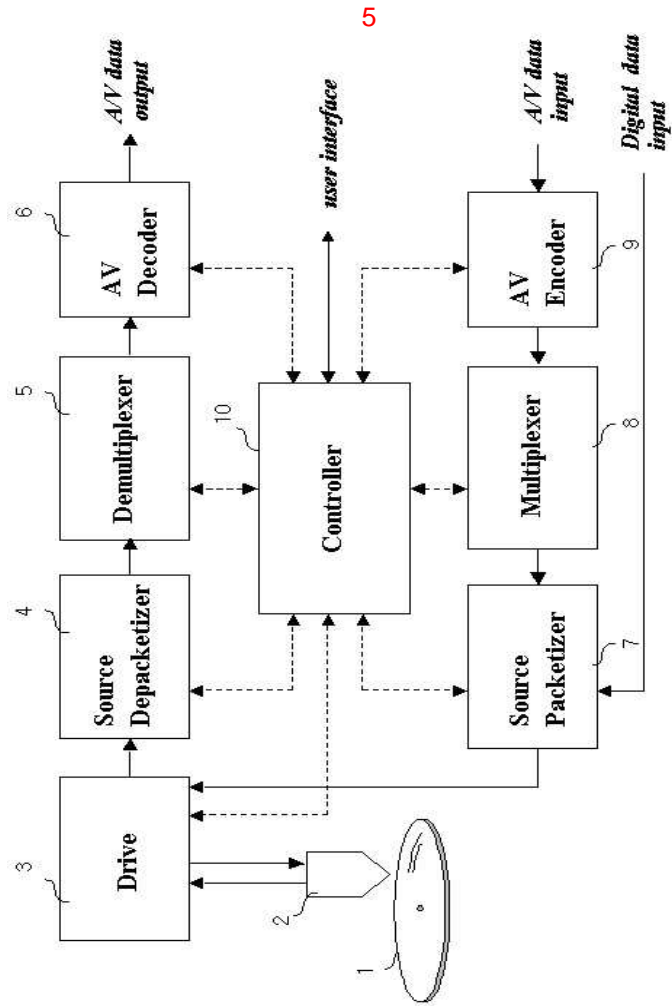
2











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