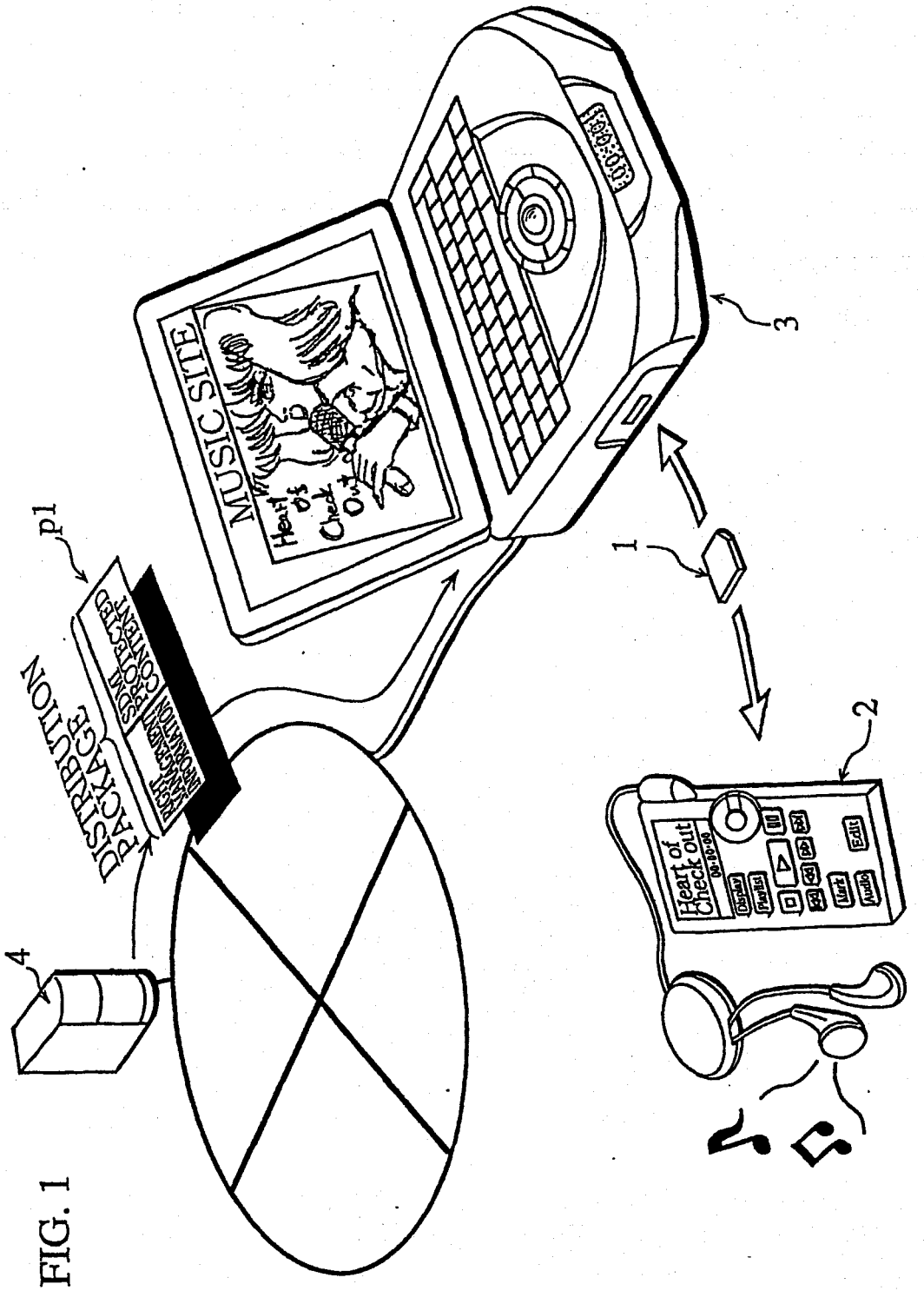

MUSIC SITE
Heart of Check Out
DISTRIBUTION PACKAGE
SOFTWARE
CONTENT
1
2
3
4
P1

FIG. 1

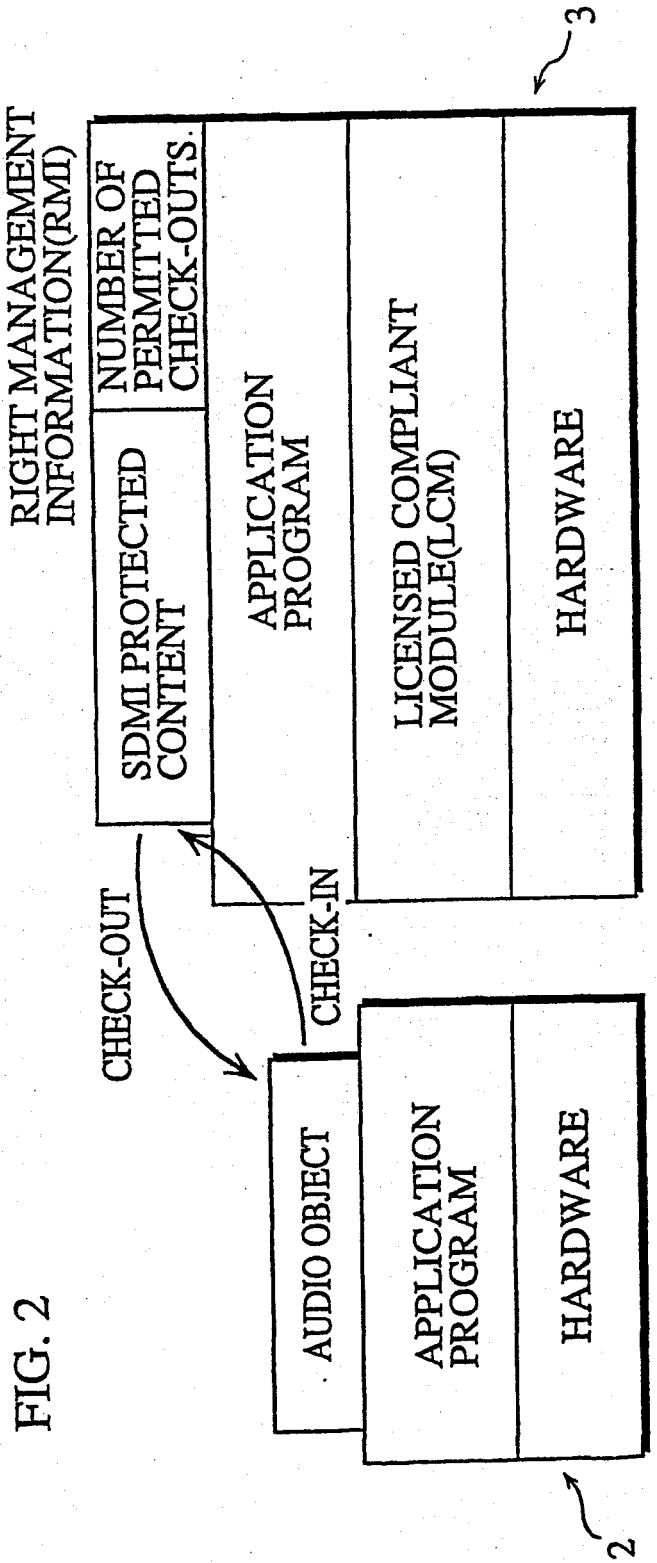

RIGHT MANAGEMENT INFORMATION(RMI)
SDMI PROTECTED CONTENT
NUMBER OF PERMITTED CHECK-OUTS
APPLICATION PROGRAM
LICENSED COMPLIANT MODULE(LCM)
HARDWARE
3
CHECK-OUT
CHECK-IN
AUDIO OBJECT
APPLICATION PROGRAM
HARDWARE
2

FIG. 2

FIG. 3A

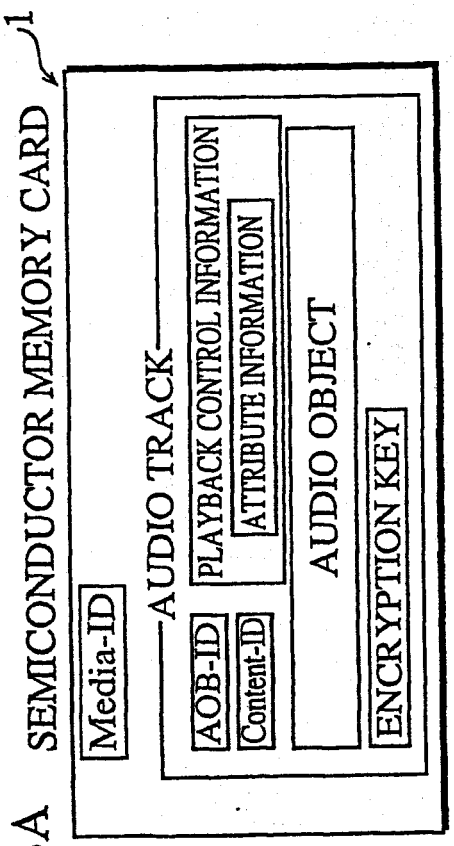

SEMICONDUCTOR MEMORY CARD
1
Media-ID
AUDIO TRACK
AOB-ID
Content-ID
PLAYBACK CONTROL INFORMATION
ATTRIBUTE INFORMATION
AUDIO OBJECT
ENCRYPTION KEY

FIG. 3B

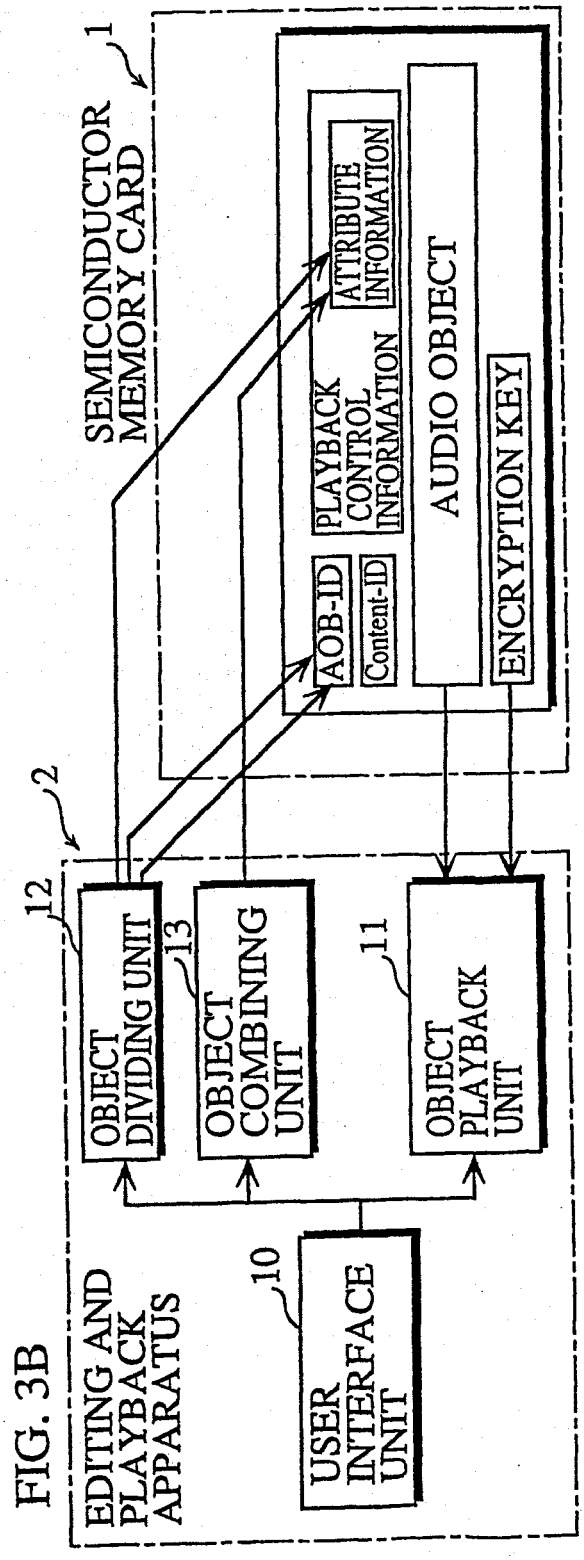

SEMICONDUCTOR MEMORY CARD
1
AOB-ID
Content-ID
PLAYBACK CONTROL INFORMATION
ATTRIBUTE INFORMATION
AUDIO OBJECT
ENCRYPTION KEY
EDITING AND PLAYBACK APPARATUS
2
12
OBJECT DIVIDING UNIT
13
OBJECT COMBINING UNIT
11
OBJECT PLAYBACK UNIT
10
USER INTERFACE UNIT

FIG. 4

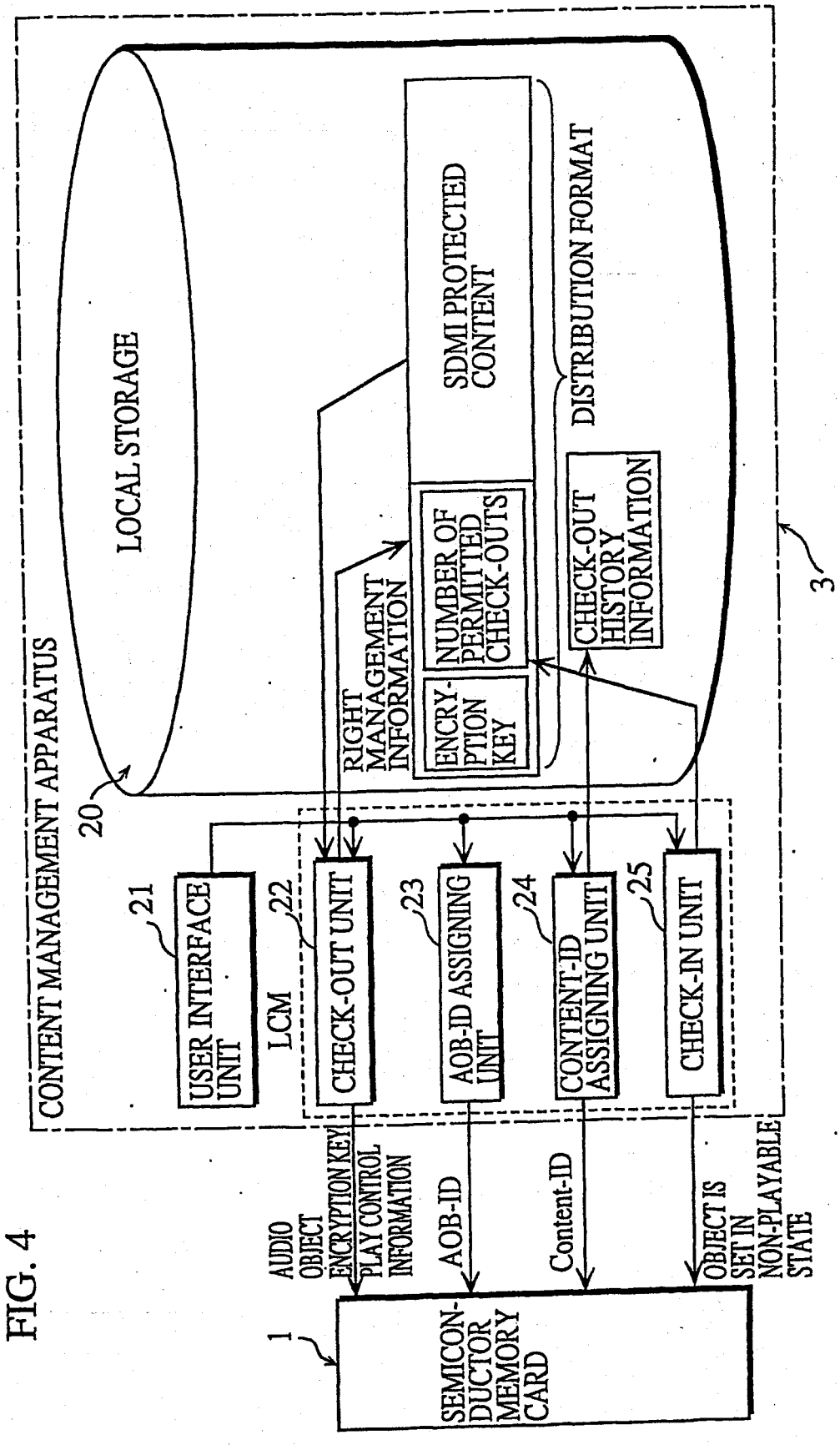

CONTENT MANAGEMENT APPARATUS
LOCAL STORAGE
20
SDMI PROTECTED CONTENT
DISTRIBUTION FORMAT
RIGHT MANAGEMENT INFORMATION
ENCRY-PTION KEY
NUMBER OF PERMITTED CHECK-OUTS
CHECK-OUT HISTORY INFORMATION
3
21
USER INTERFACE UNIT
LCM
22
CHECK-OUT UNIT
23
AOB-ID ASSIGNING UNIT
24
CONTENT-ID ASSIGNING UNIT
25
CHECK-IN UNIT
AUDIO OBJECT ENCRYPTION KEY
PLAY CONTROL INFORMATION
AOB-ID
Content-ID
OBJECT IS SET IN NON-PLAYABLE STATE
1
SEMICON-DUCTOR MEMORY CARD

FIG. 5A

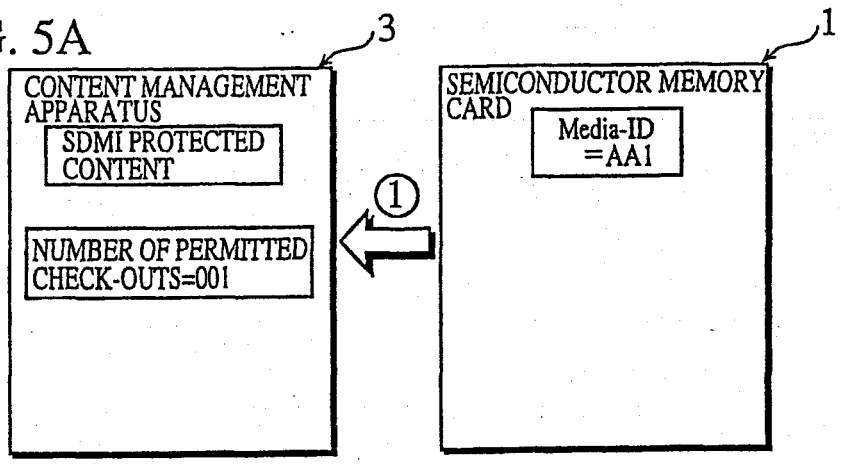


FIG. 5B

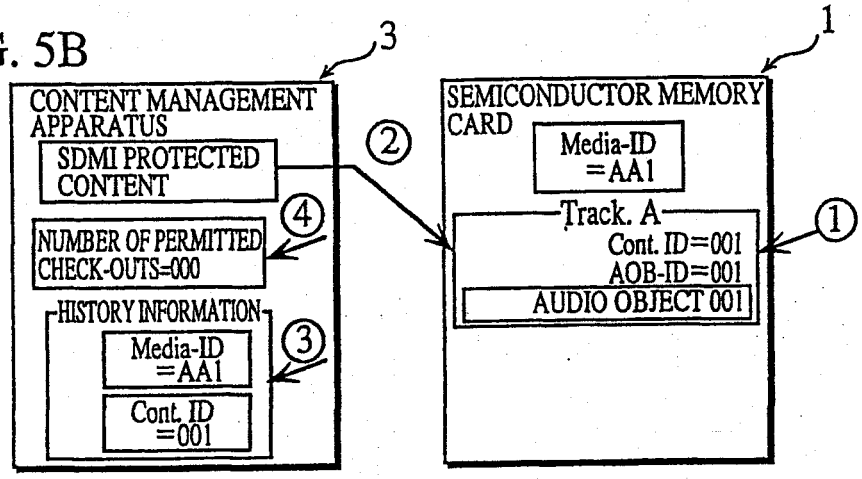


FIG. 5C

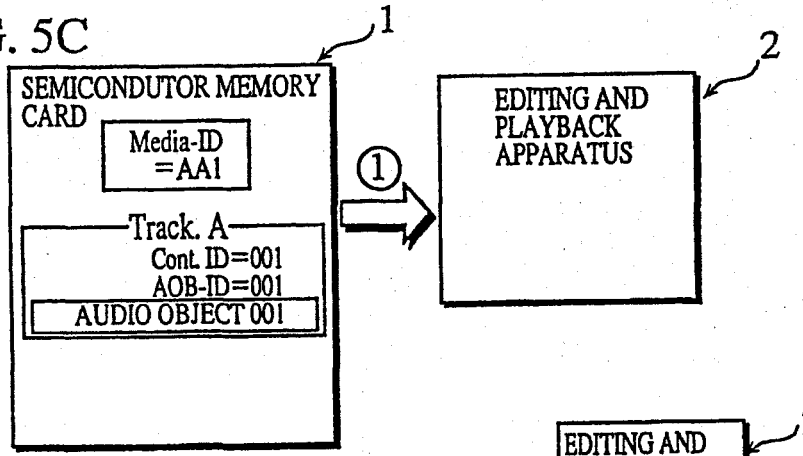


FIG. 5D

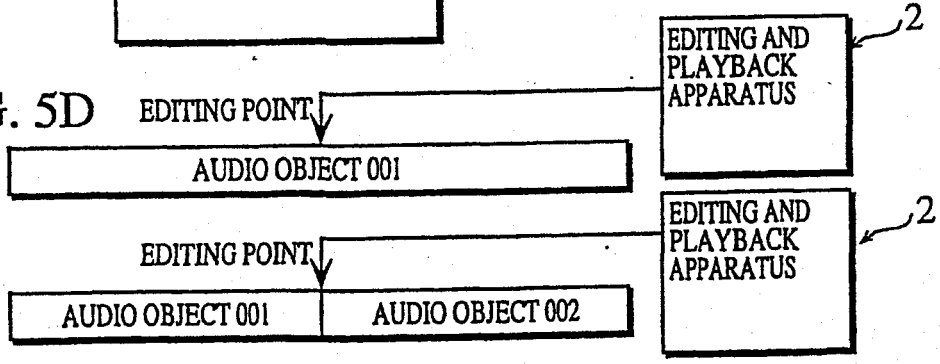


FIG. 6A

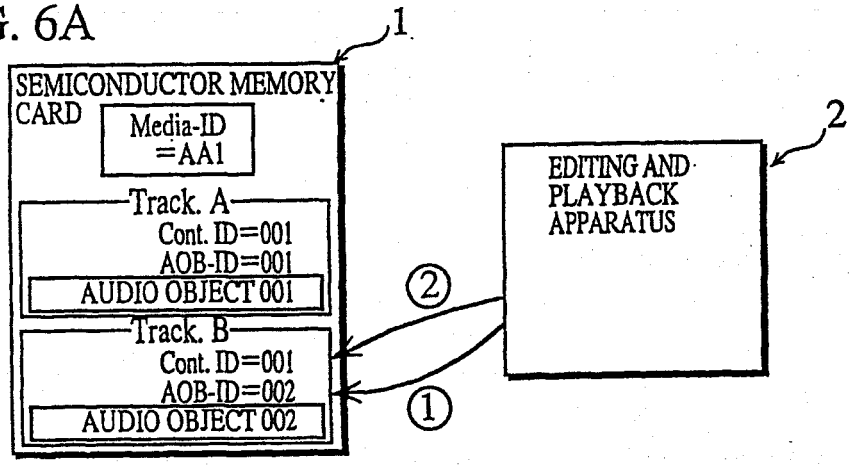


FIG. 6B

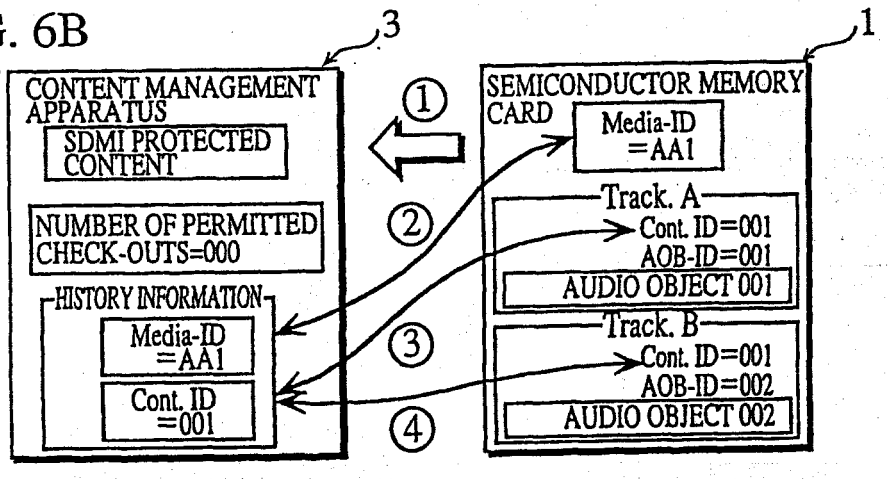


FIG. 6C

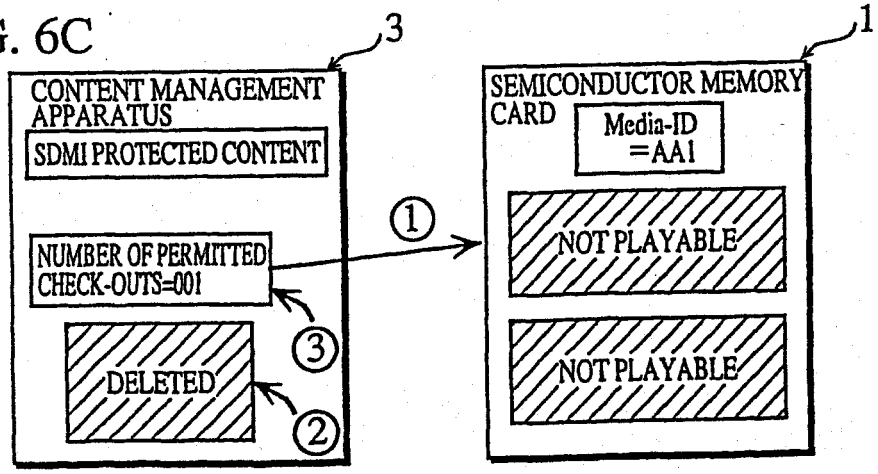


FIG. 7A

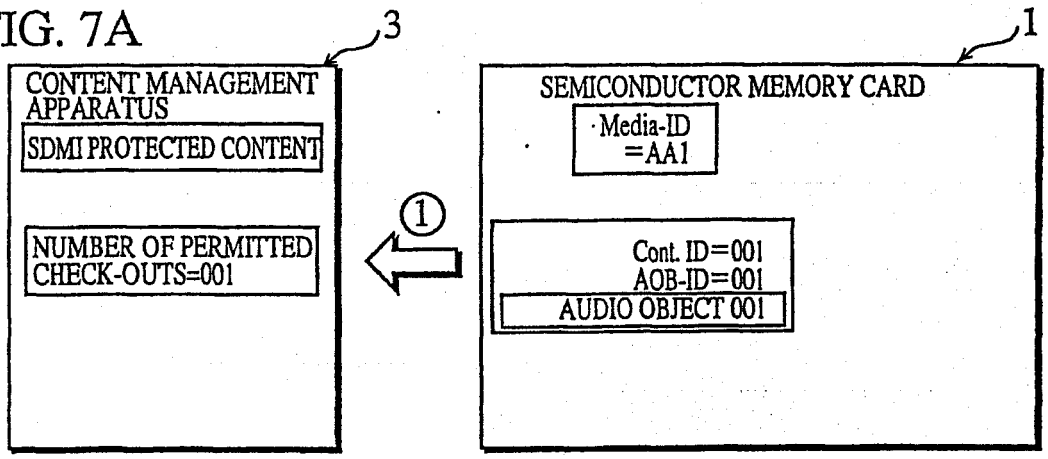


FIG. 7B

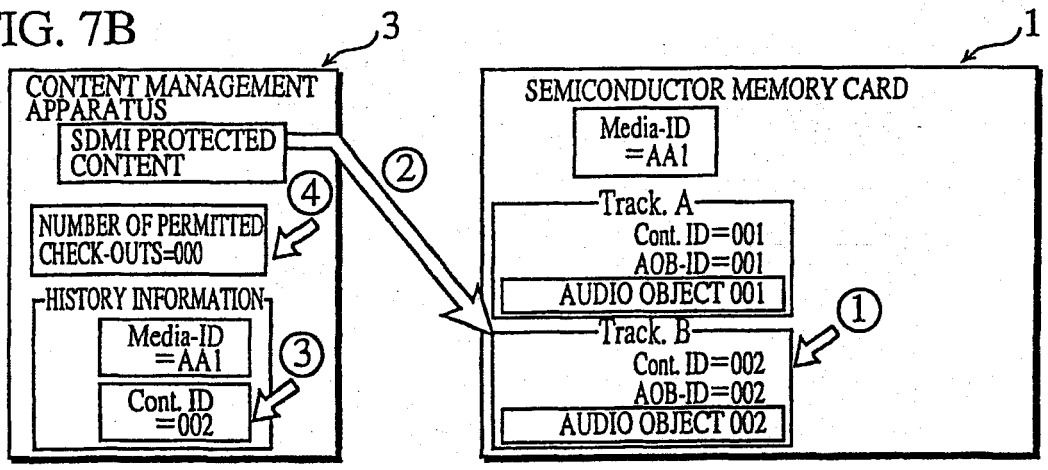


FIG. 7C

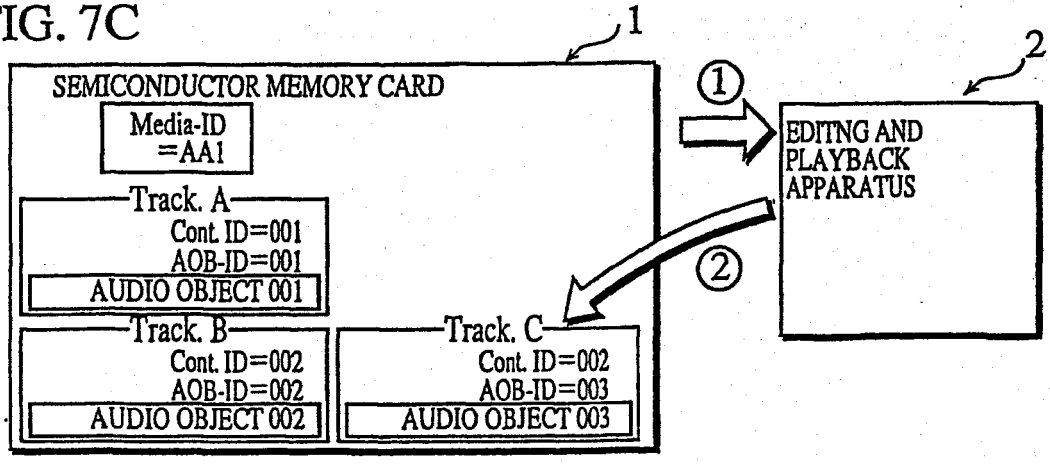


FIG. 8A

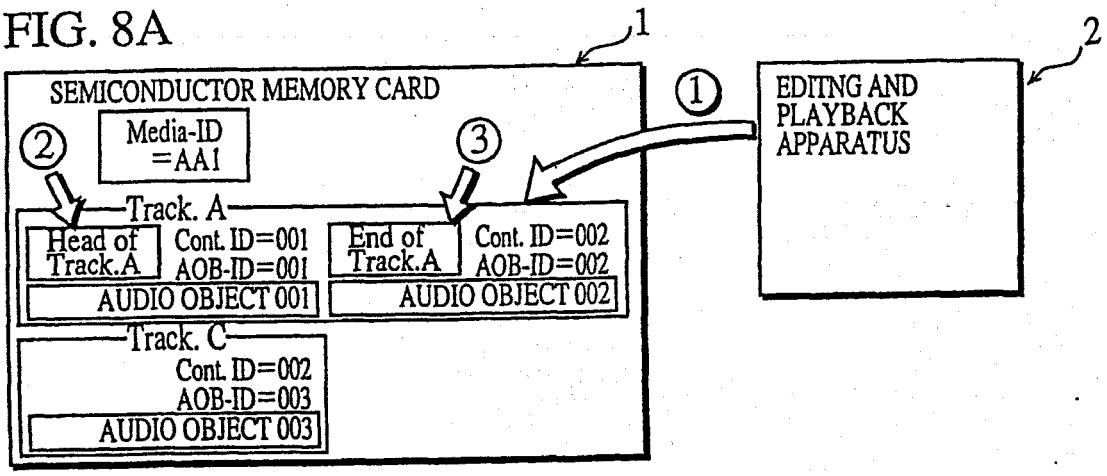


FIG. 8B

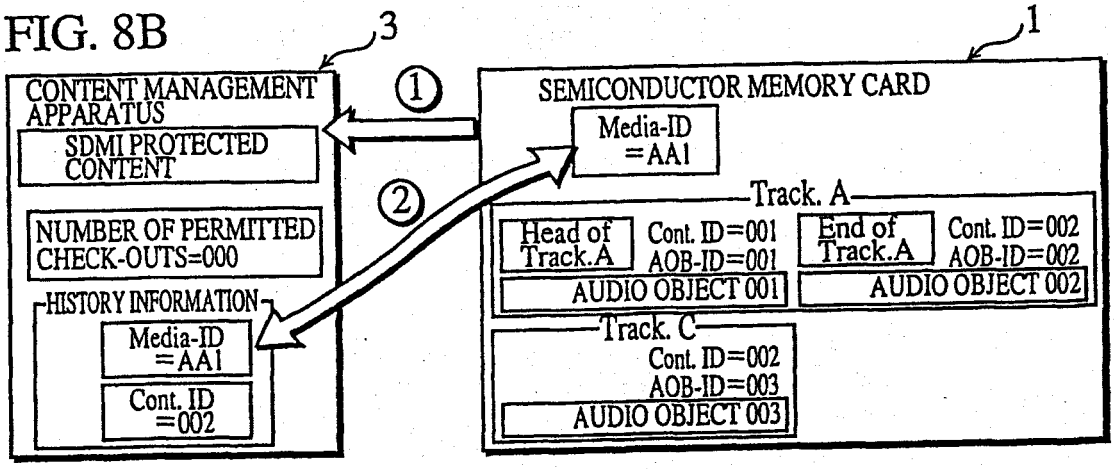


FIG. 8C

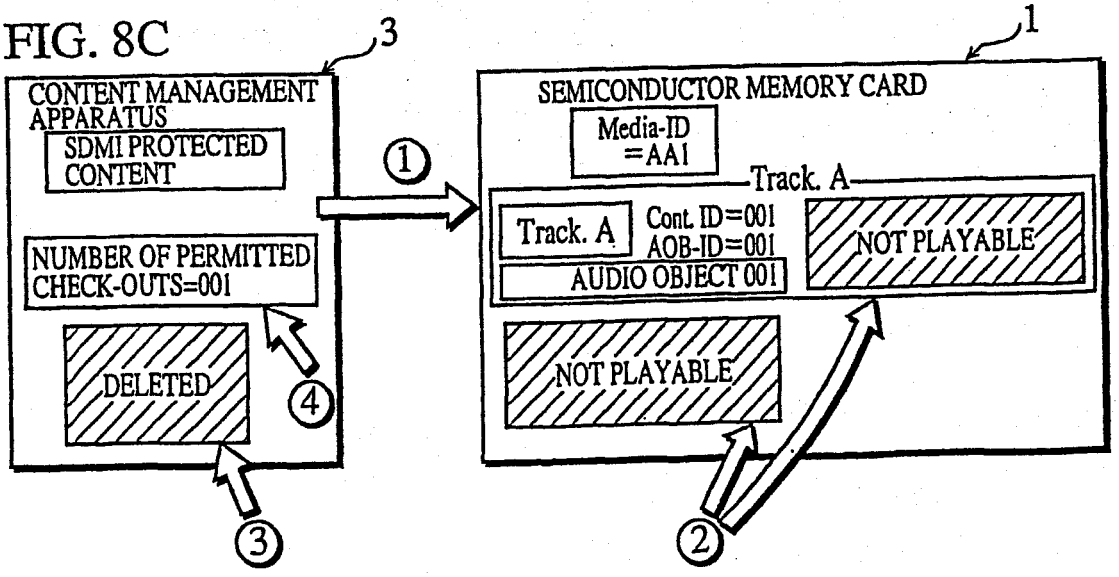
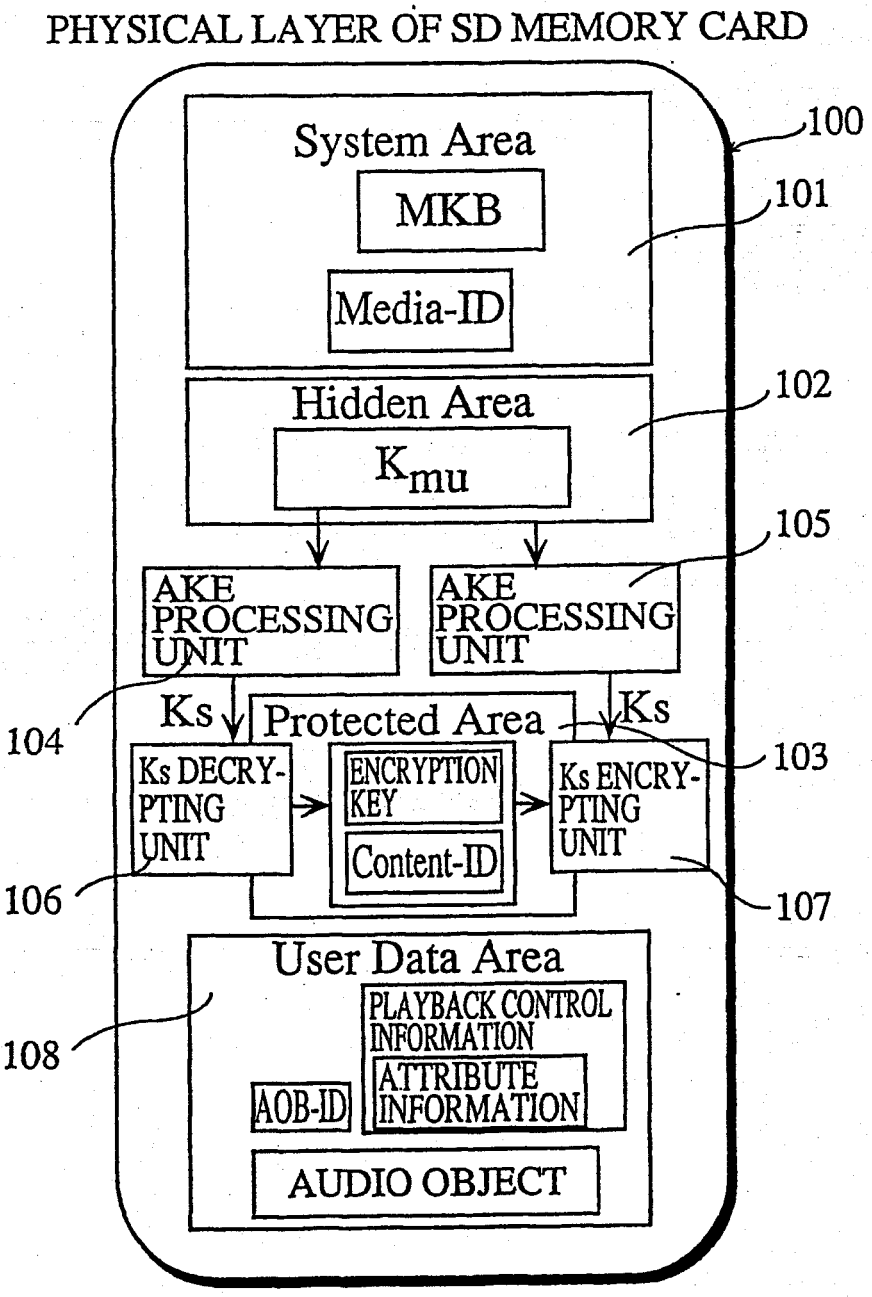


FIG. 9


PHYSICAL LAYER OF SD MEMORY CARD
System Area
MKB
Media-ID
Hidden Area
Kmu
AKE PROCESSING UNIT
AKE PROCESSING UNIT
Ks
Protected Area
Ks
Ks DECRY-PTING UNIT
ENCRYPTION KEY
Content-ID
Ks ENCRY-PTING UNIT
User Data Area
PLAYBACK CONTROL INFORMATION
ATTRIBUTE INFORMATION
AOB-ID
AUDIO OBJECT
100
101
102
103
104
105
106
107
108

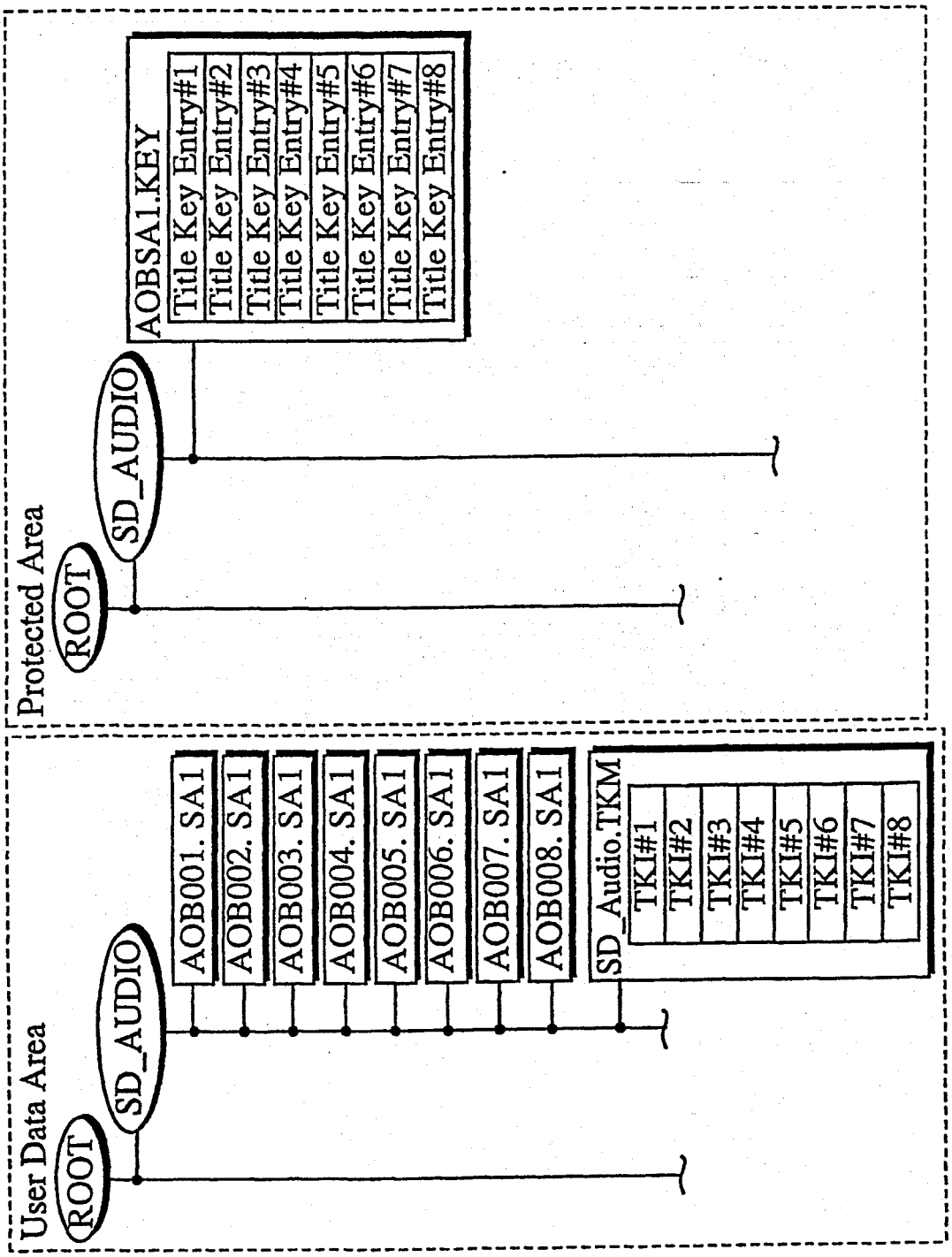

Protected Area
ROOT
SD_AUDIO
AOBSA1.KEY
Title Key Entry#1
Title Key Entry#2
Title Key Entry#3
Title Key Entry#4
Title Key Entry#5
Title Key Entry#6
Title Key Entry#7
Title Key Entry#8
User Data Area
ROOT
SD_AUDIO
AOB001. SA1
AOB002. SA1
AOB003. SA1
AOB004. SA1
AOB005. SA1
AOB006. SA1
AOB007. SA1
AOB008. SA1
SD_Audio.TKM
TKI#1
TKI#2
TKI#3
TKI#4
TKI#5
TKI#6
TKI#7
TKI#8

FIG. 10

FIG. 11

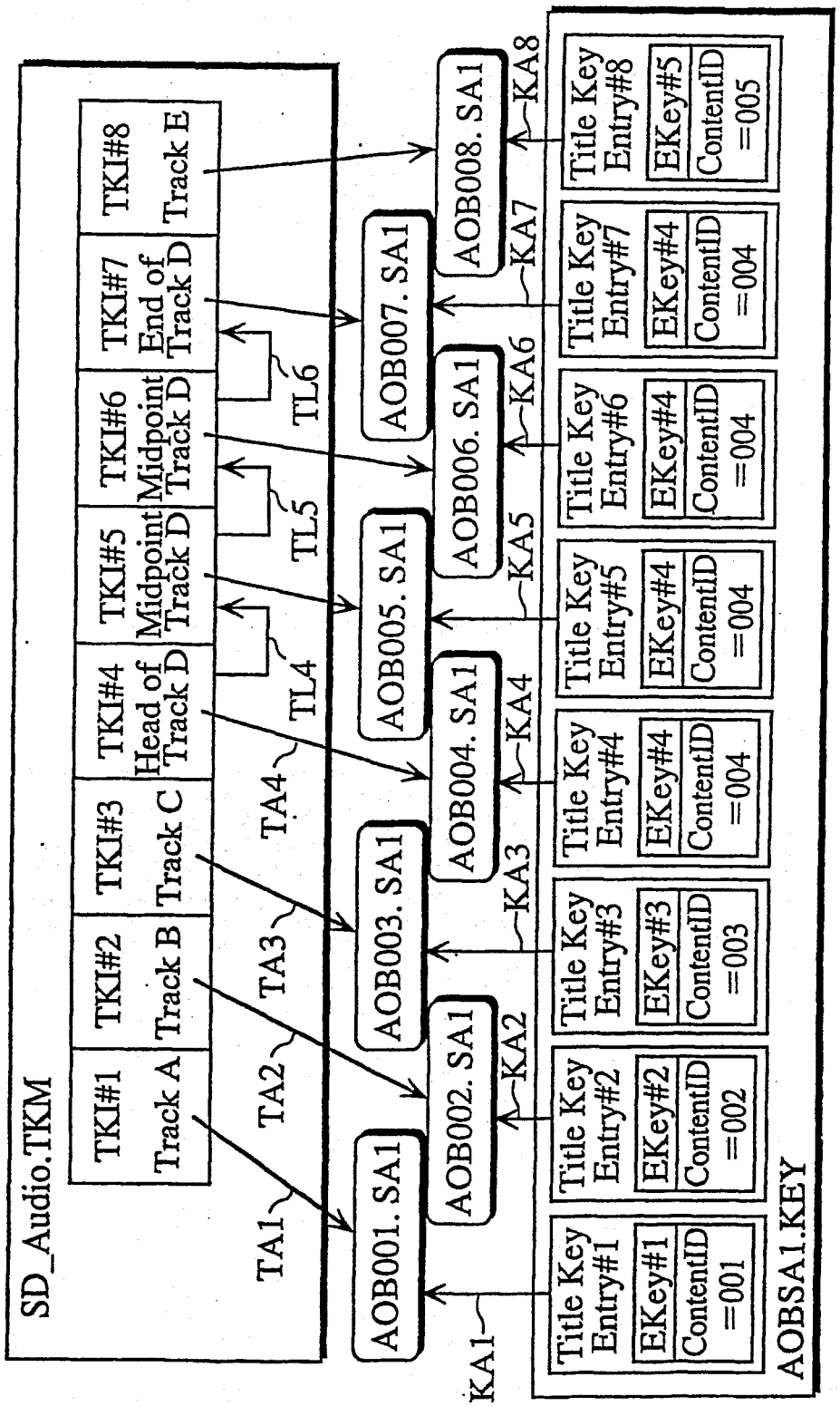

SD_Audio.TKM
TKI#1 Track A
TKI#2 Track B
TKI#3 Track C
TKI#4 Head of Track D
TKI#5 Midpoint Track D
TKI#6 Midpoint Track D
TKI#7 End of Track D
TKI#8 Track E
TA1
TA2
TA3
TA4
TL4
TL5
TL6
AOB001. SA1
AOB002. SA1
AOB003. SA1
AOB004. SA1
AOB005. SA1
AOB006. SA1
AOB007. SA1
AOB008. SA1
KA1
KA2
KA3
KA4
KA5
KA6
KA7
KA8
Title Key Entry#1
EKey#1
ContentID =001
Title Key Entry#2
EKey#2
ContentID =002
Title Key Entry#3
EKey#3
ContentID =003
Title Key Entry#4
EKey#4
ContentID =004
Title Key Entry#5
EKey#4
ContentID =004
Title Key Entry#6
EKey#4
ContentID =004
Title Key Entry#7
EKey#4
ContentID =004
Title Key Entry#8
EKey#5
ContentID =005
AOBSA1.KEY

FIG. 12

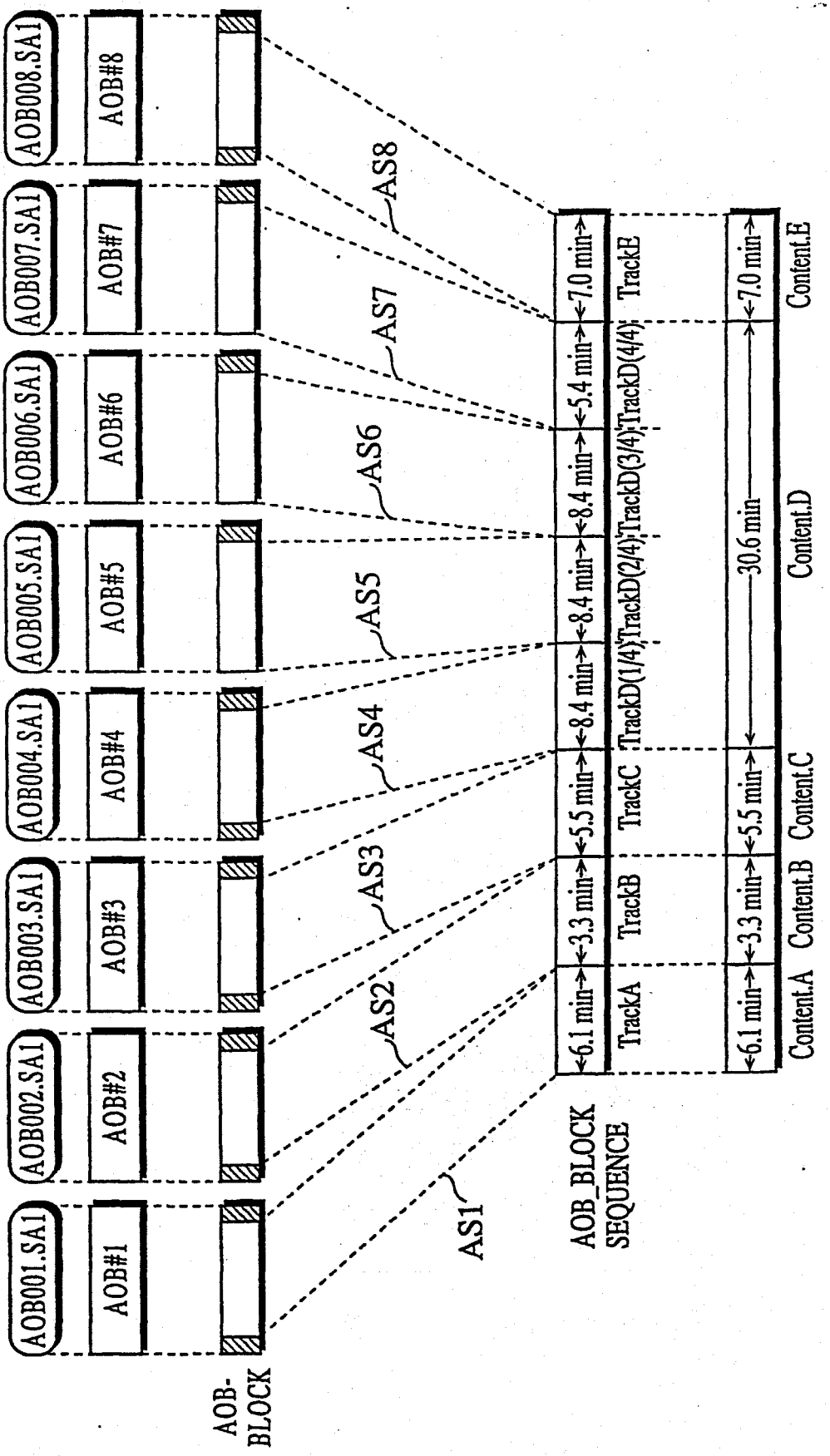

AOB001.SA1
AOB#1
AOB002.SA1
AOB#2
AOB003.SA1
AOB#3
AOB004.SA1
AOB#4
AOB005.SA1
AOB#5
AOB006.SA1
AOB#6
AOB007.SA1
AOB#7
AOB008.SA1
AOB#8
AOB-BLOCK
AS1
AS2
AS3
AS4
AS5
AS6
AS7
AS8
AOB_BLOCK SEQUENCE
6.1 min
3.3 min
5.5 min
8.4 min
8.4 min
8.4 min
5.4 min
7.0 min
TrackA
TrackB
TrackC
TrackD(1/4)
TrackD(2/4)
TrackD(3/4)
TrackD(4/4)
TrackE
Content.A
Content.B
Content.C
Content.D
Content.E
30.6 min

FIG. 13A

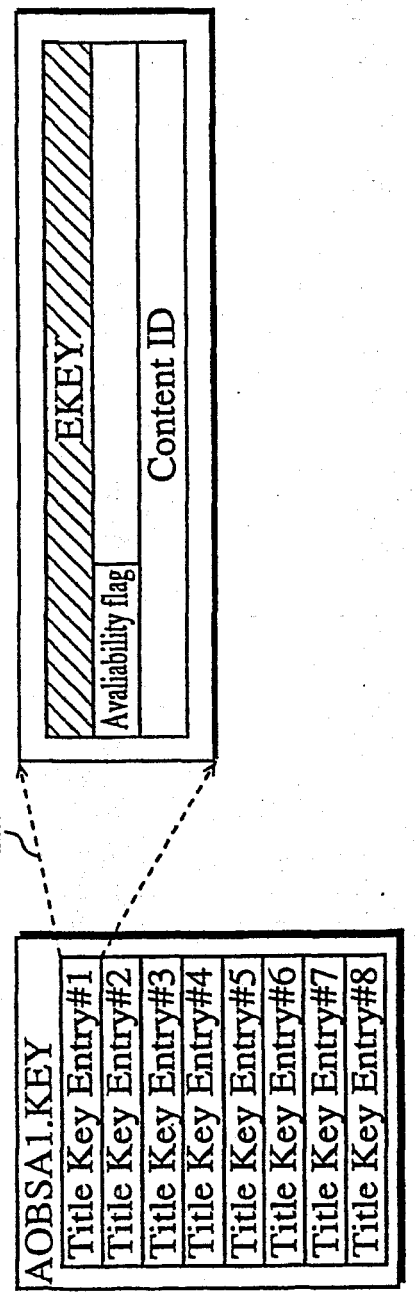


FIG. 13B

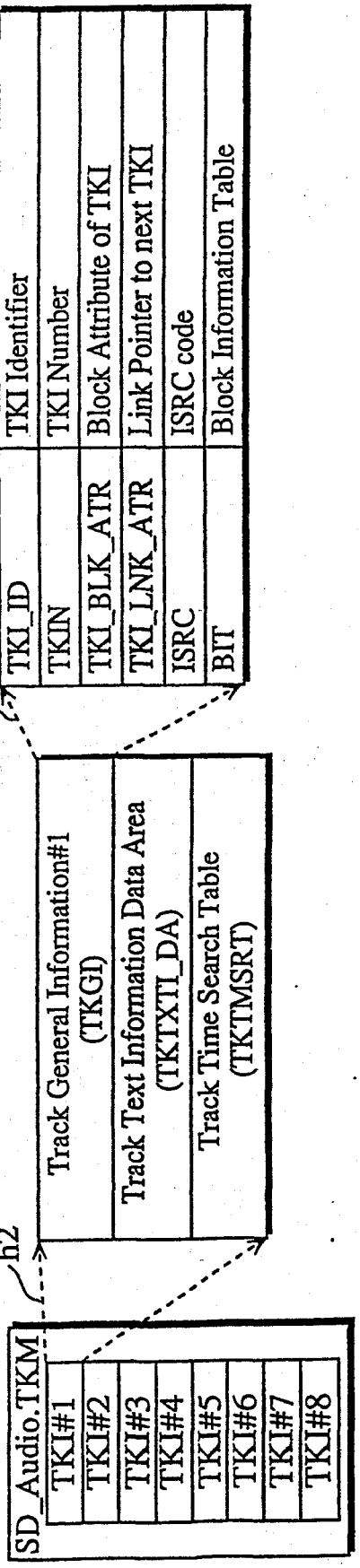
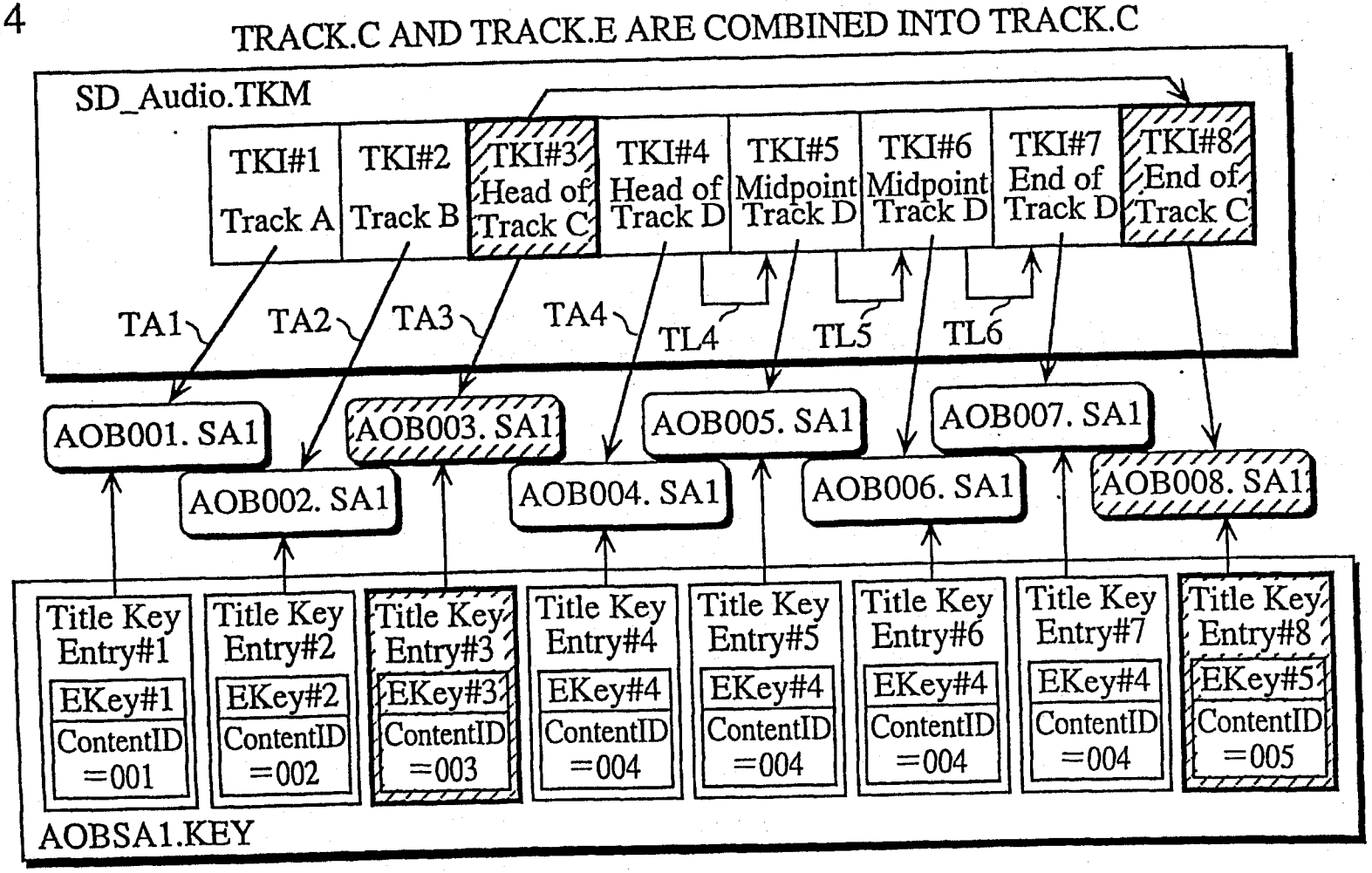


FIG. 14



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FIG. 15

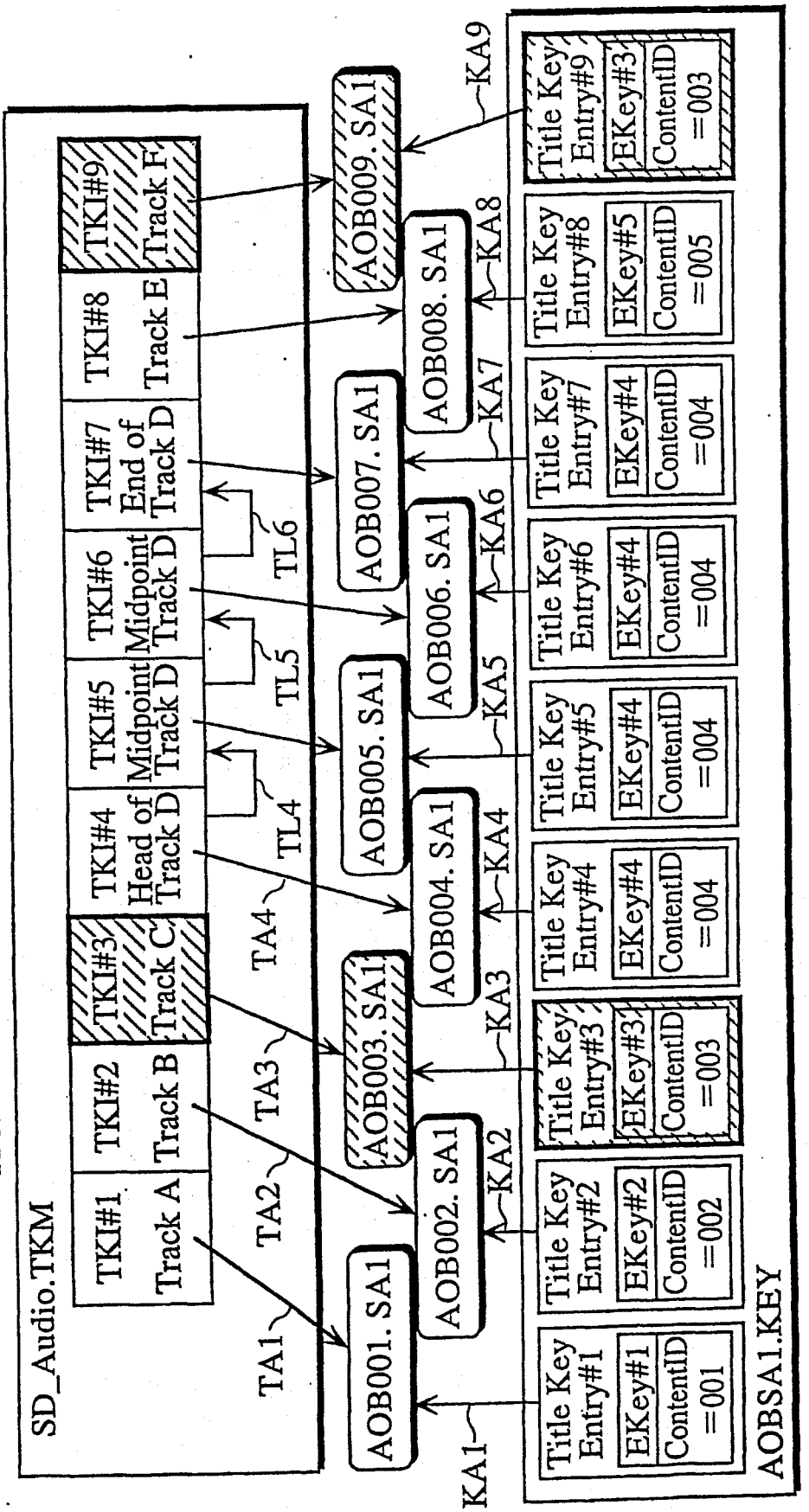

TRACK.C IS DIVIDED INTO TRACK.C AND TRACK.F
SD_Audio.TKM
TKI#1 Track A
TKI#2 Track B
TKI#3 Track C
TKI#4 Head of Track D
TKI#5 Midpoint Track D
TKI#6 Midpoint Track D
TKI#7 End of Track D
TKI#8 Track E
TKI#9 Track F
TA1
TA2
TA3
TA4
TL4
TL5
TL6
AOB001. SA1
AOB002. SA1
AOB003. SA1
AOB004. SA1
AOB005. SA1
AOB006. SA1
AOB007. SA1
AOB008. SA1
AOB009. SA1
KA1
KA2
KA3
KA4
KA5
KA6
KA7
KA8
KA9
Title Key Entry#1
EKey#1
ContentID =001
Title Key Entry#2
EKey#2
ContentID =002
Title Key Entry#3
EKey#3
ContentID =003
Title Key Entry#4
EKey#4
ContentID =004
Title Key Entry#5
EKey#4
ContentID =004
Title Key Entry#6
EKey#4
ContentID =004
Title Key Entry#7
EKey#4
ContentID =004
Title Key Entry#8
EKey#5
ContentID =005
Title Key Entry#9
EKey#3
ContentID =003
AOBSA1.KEY

FIG. 16

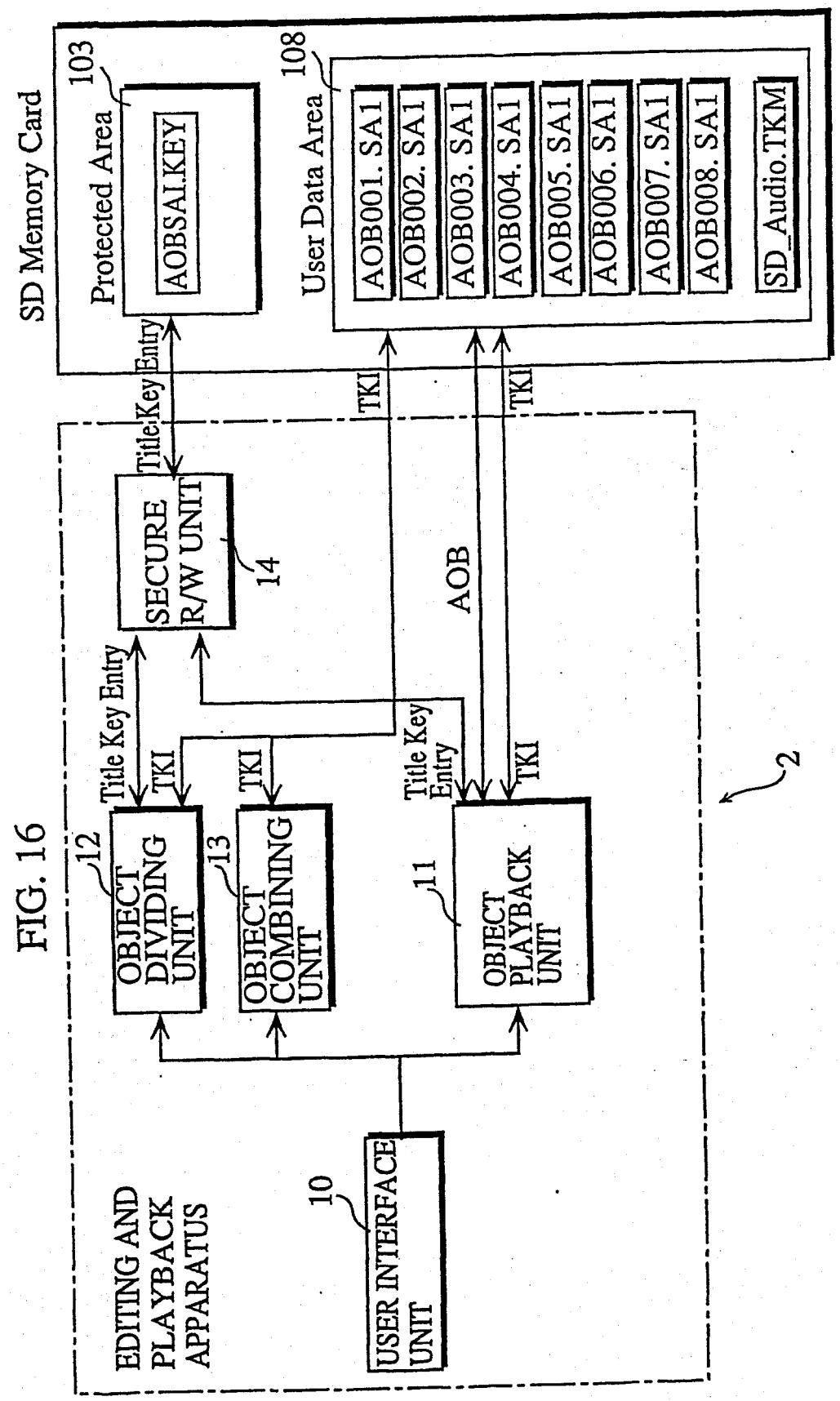

SD Memory Card
103
Protected Area
AOBSAI.KEY
108
User Data Area
AOB001. SA1
AOB002. SA1
AOB003. SA1
AOB004. SA1
AOB005. SA1
AOB006. SA1
AOB007. SA1
AOB008. SA1
SD_Audio.TKM
Title Key Entry
TKI
TKI
SECURE R/W UNIT
14
AOB
Title Key Entry
TKI
TKI
Title Key Entry
TKI
12
OBJECT DIVIDING UNIT
13
OBJECT COMBINING UNIT
11
OBJECT PLAYBACK UNIT
2
EDITING AND PLAYBACK APPARATUS
10
USER INTERFACE UNIT

FIG. 17

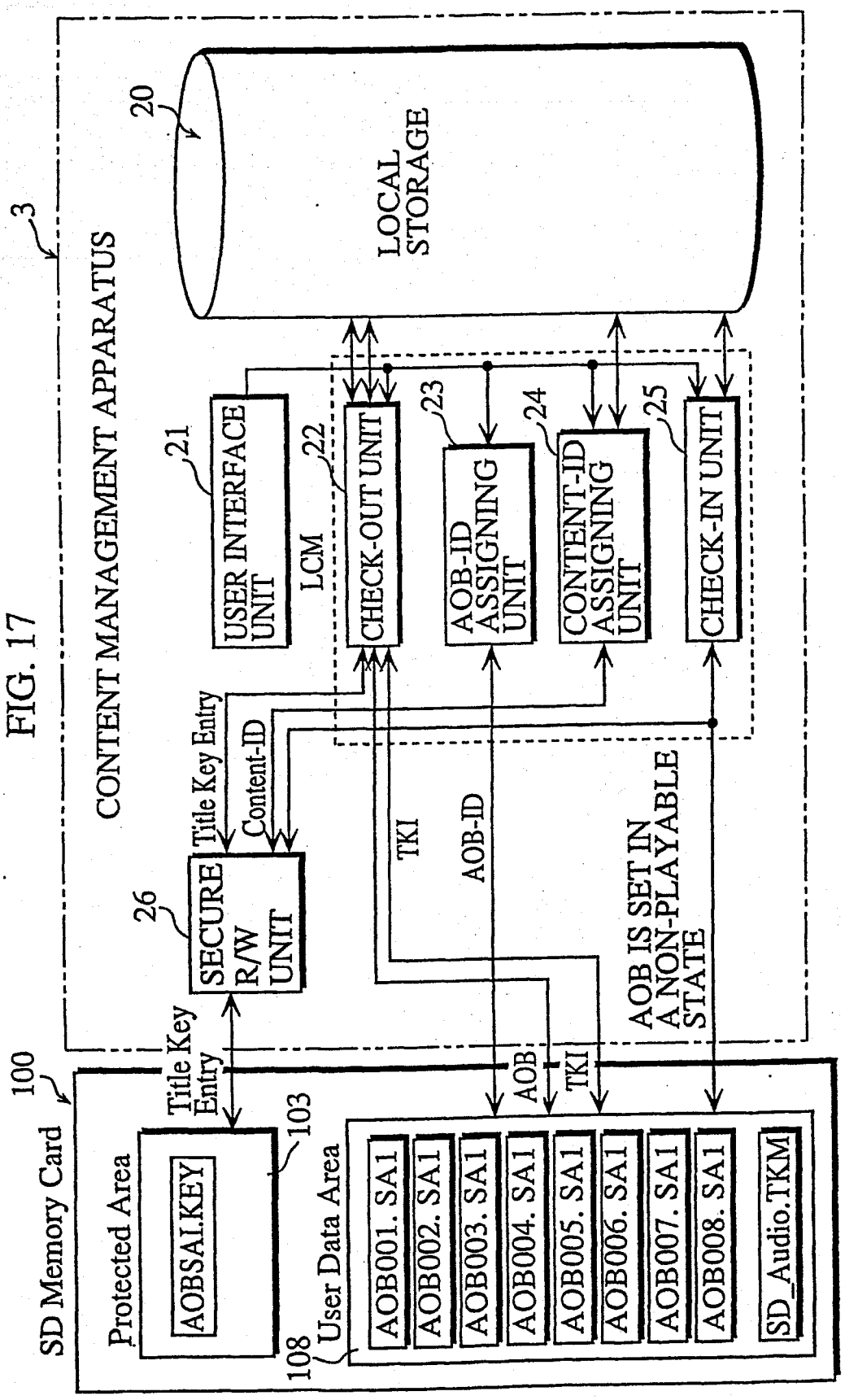

3
CONTENT MANAGEMENT APPARATUS
20
LOCAL STORAGE
21
USER INTERFACE UNIT
22
LCM
CHECK-OUT UNIT
23
AOB-ID ASSIGNING UNIT
24
CONTENT-ID ASSIGNING UNIT
25
CHECK-IN UNIT
26
SECURE R/W UNIT
Title Key Entry
Content-ID
TKI
AOB-ID
AOB IS SET IN A NON-PLAYABLE STATE
100
SD Memory Card
Protected Area
AOBSAI.KEY
103
User Data Area
108
AOB001. SA1
AOB002. SA1
AOB003. SA1
AOB004. SA1
AOB005. SA1
AOB006. SA1
AOB007. SA1
AOB008. SA1
SD_Audio.TKM
Title Key Entry
AOB
TKI

FIG. 18

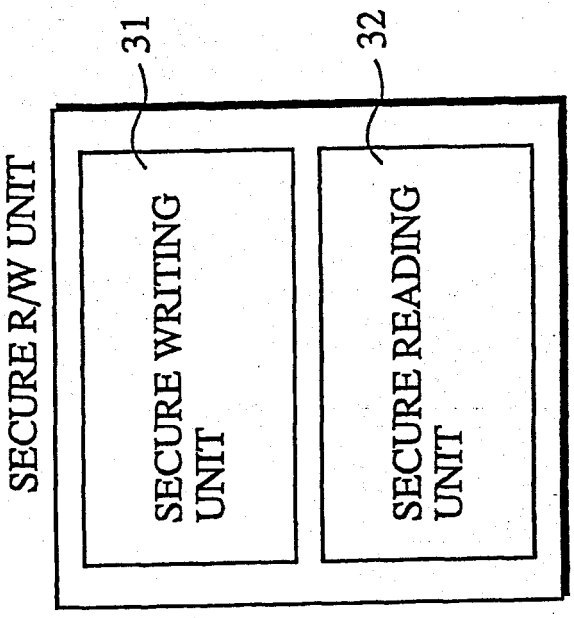
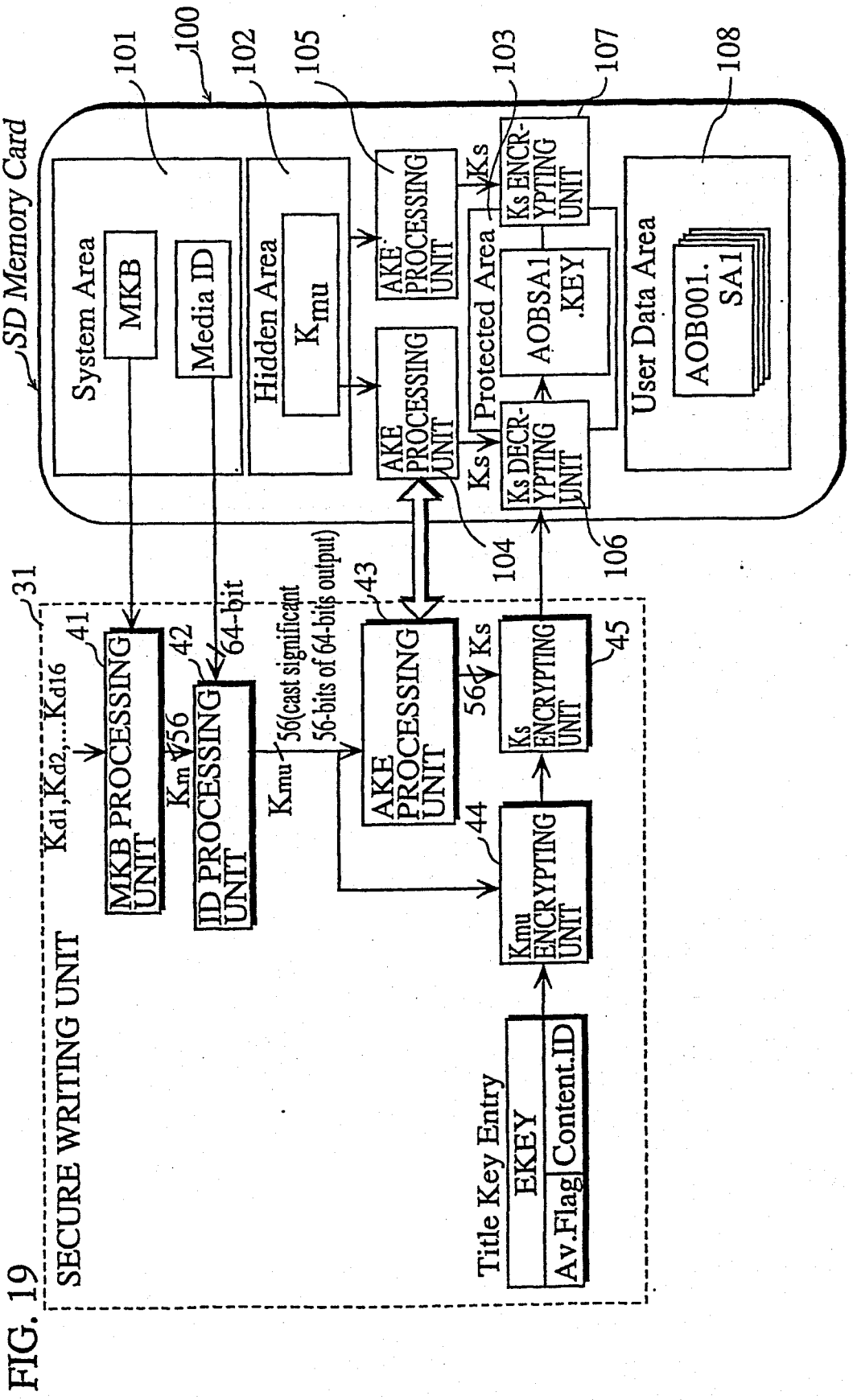

SECURE R/W UNIT
31
32
SECURE WRITING UNIT
SECURE READING UNIT

FIG. 19


SD Memory Card
100
101
System Area
MKB
Media ID
102
Hidden Area
Kmu
105
AKE PROCESSING UNIT
AKE PROCESSING UNIT
103
Protected Area
AOBSA1 .KEY
Ks ENCR-YPTING UNIT
Ks DECR-YPTING UNIT
107
108
User Data Area
AOB001. SA1
Ks
104
106
31
SECURE WRITING UNIT
41
MKB PROCESSING UNIT
Kd1,Kd2,...Kd16
Km 56
42
ID PROCESSING UNIT
64-bit
Kmu
56(cast significant 56-bits of 64-bits output)
43
AKE PROCESSING UNIT
56 Ks
Ks ENCRYPTING UNIT
45
44
Kmu ENCRYPTING UNIT
Title Key Entry
EKEY
Av.Flag
Content.ID

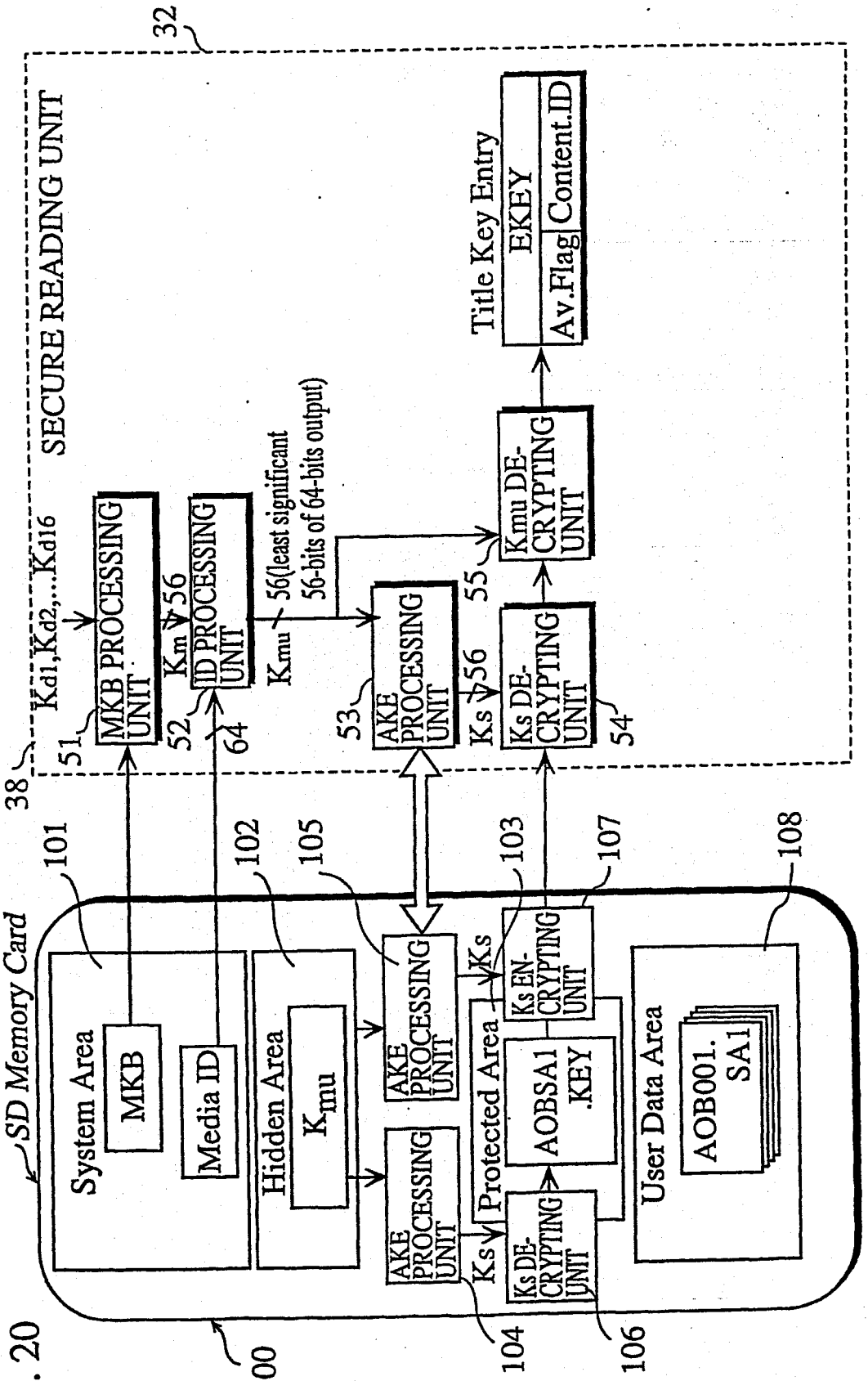
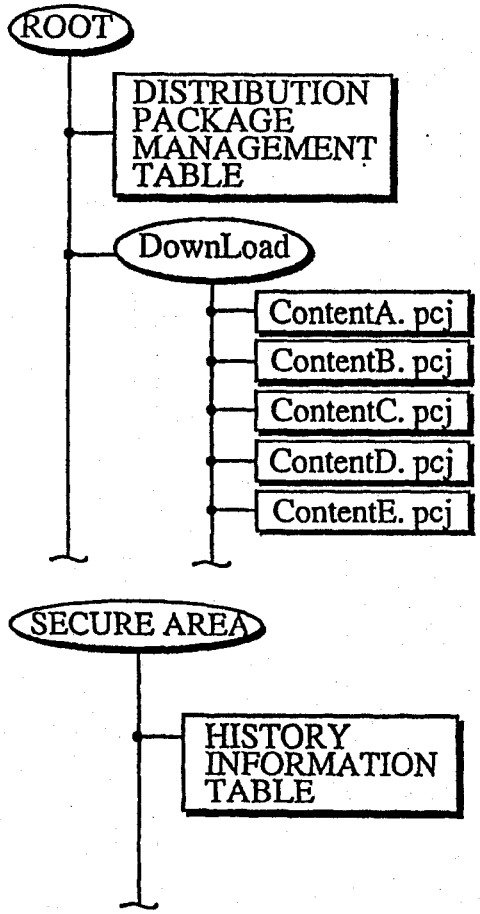

SD Memory Card
System Area
MKB
Media ID
Hidden Area
Kmu
Protected Area
AOBSA1 .KEY
User Data Area
AOB001. SA1
AKE PROCESSING UNIT
AKE PROCESSING UNIT
Ks DE-CRYPTING UNIT
Ks EN-CRYPTING UNIT
Ks
Ks
100
101
102
103
104
105
106
107
108
SECURE READING UNIT
32
38
MKB PROCESSING UNIT
ID PROCESSING UNIT
AKE PROCESSING UNIT
Ks DE-CRYPTING UNIT
Kmu DE-CRYPTING UNIT
51
52
53
54
55
64
Kd1,Kd2,...Kd16
Km
Kmu
Ks
56
56
56(least significant 56-bits of 64-bits output)
Title Key Entry
EKEY
Av.Flag
Content.ID

FIG. 20

FIG. 21A



DISTRIBUTION PACKAGE MANAGEMENT TABLE

FIG. 21B

INDEX NUMBER	FILE PATH	CONTENT INTRODUCTION INFORMATION
001	C:¥DownLoad¥ContentA. pcj	TITLE NAME, ARTIST NAME
002	C:¥DownLoad¥ContentB. pcj	TITLE NAME, ARTIST NAME
003	C:¥DownLoad¥ContentC. pcj	TITLE NAME, ARTIST NAME
004	C:¥DownLoad¥ContentD. pcj	TITLE NAME, ARTIST NAME
005	C:¥DownLoad¥ContentE. pcj	TITLE NAME, ARTIST NAME

FIG. 21C

NUMBER OF PERMITTED CHECK-OUTS A	2
NUMBER OF PERMITTED CHECK-OUTS B	2
NUMBER OF PERMITTED CHECK-OUTS C	1
NUMBER OF PERMITTED CHECK-OUTS D	1
NUMBER OF PERMITTED CHECK-OUTS E	1

FIG. 21D HISTORY INFORMATION TABLE

	Media-ID	Content. ID
CHECK-OUT HISTORY INFORMATION A	AA1	001
	AA2	001
CHECK-OUT HISTORY INFORMATION B	AA1	002
	AA2	002
CHECK-OUT HISTORY INFORMATION C	AA1	003
CHECK-OUT HISTORY INFORMATION D	AA1	004
CHECK-OUT HISTORY INFORMATION E	AA1	005

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FIG. 22

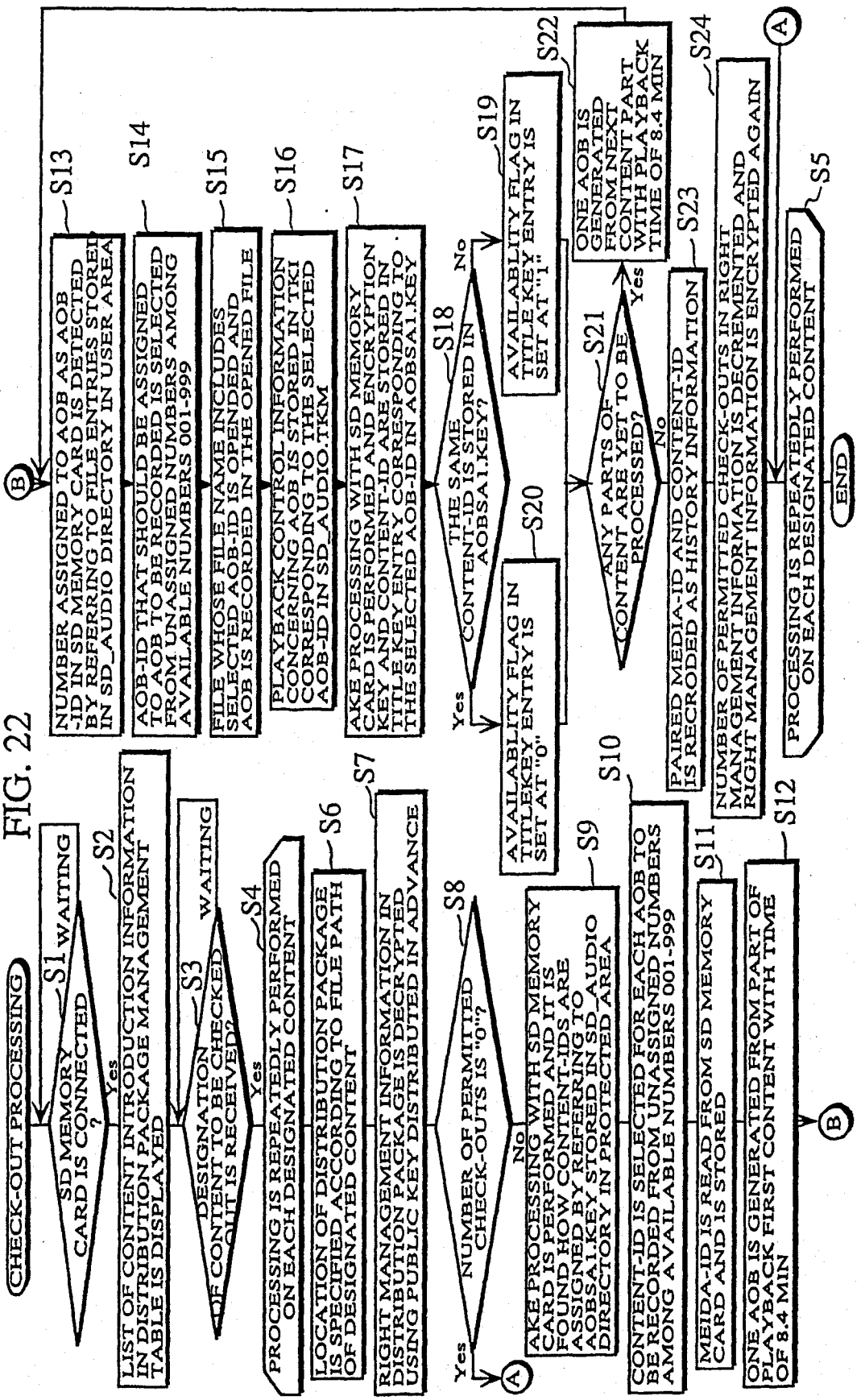

CHECK-OUT PROCESSING
S1 WAITING
SD MEMORY CARD IS CONNECTED ?
Yes
S2
LIST OF CONTENT INTRODUCTION INFORMATION IN DISTRIBUTION PACKAGE MANAGEMENT TABLE IS DISPLAYED
S3 WAITING
DESIGNATION OF CONTENT TO BE CHECKED OUT IS RECEIVED?
Yes
S4
PROCESSING IS REPEATEDLY PERFORMED ON EACH DESIGNATED CONTENT
S6
LOCATION OF DISTRIBUTION PACKAGE IS SPECIFIED ACCORDING TO FILE PATH OF DESIGNATED CONTENT
S7
RIGHT MANAGEMENT INFORMATION IN DISTRIBUTION PACKAGE IS DECRYPTED USING PUBLIC KEY DISTRIBUTED IN ADVANCE
S8
NUMBER OF PERMITTED CHECK-OUTS IS "0"?
Yes
No
A
AKE PROCESSING WITH SD MEMORY CARD IS PERFORMED AND IT IS FOUND HOW CONTENT-IDS ARE ASSIGNED BY REFERRING TO AOBSA1.KEY STORED IN SD_AUDIO DIRECTORY IN PROTECTED AREA
S9
CONTENT-ID IS SELECTED FOR EACH AOB TO BE RECORDED FROM UNASSIGNED NUMBERS AMONG AVAILABLE NUMBERS 001-999
S10
MEIDA-ID IS READ FROM SD MEMORY CARD AND IS STORED
S11
ONE AOB IS GENERATED FROM PART OF PLAYBACK FIRST CONTENT WITH TIME OF 8.4 MIN
S12
B
NUMBER ASSIGNED TO AOB AS AOB -ID IN SD MEMORY CARD IS DETECTED BY REFERRING TO FILE ENTRIES STORED IN SD_AUDIO DIRECTORY IN USER AREA
S13
AOB-ID THAT SHOULD BE ASSIGNED TO AOB TO BE RECORDED IS SELECTED FROM UNASSIGNED NUMBERS AMONG AVAILABLE NUMBERS 001-999
S14
FILE WHOSE FILE NAME INCLUDES SELECTED AOB-ID IS OPENED AND AOB IS RECORDED IN THE OPENED FILE
S15
PLAYBACK CONTROL INFORMATION CONCERNING AOB IS STORED IN TKI CORRESPONDING TO THE SELECTED AOB-ID IN SD_AUDIO.TKM
S16
AKE PROCESSING WITH SD MEMORY CARD IS PERFORMED AND ENCRYPTION KEY AND CONTENT-ID ARE STORED IN TITLE KEY ENTRY CORRESPONDING TO THE SELECTED AOB-ID IN AOBSA1.KEY
S17
THE SAME CONTENT-ID IS STORED IN AOBSA1.KEY?
S18
No
Yes
AVAILABLITY FLAG IN TITLEKEY ENTRY IS SET AT "0"
S20
AVAILABLITY FLAG IN TITLE KEY ENTRY IS SET AT "1"
S19
ANY PARTS OF CONTENT ARE YET TO BE PROCESSED?
S21
Yes
No
ONE AOB IS GENERATED FROM NEXT CONTENT PART WITH PLAYBACK TIME OF 8.4 MIN
S22
PAIRED MEDIA-ID AND CONTENT-ID IS RECRODED AS HISTORY INFORMATION
S23
NUMBER OF PERMITTED CHECK-OUTS IN RIGHT MANAGEMENT INFORMATION IS DECREMENTED AND RIGHT MANAGEMENT INFORMATION IS ENCRYPTED AGAIN
S24
A
PROCESSING IS REPEATEDLY PERFORMED ON EACH DESIGNATED CONTENT
S5
END

FIG. 23

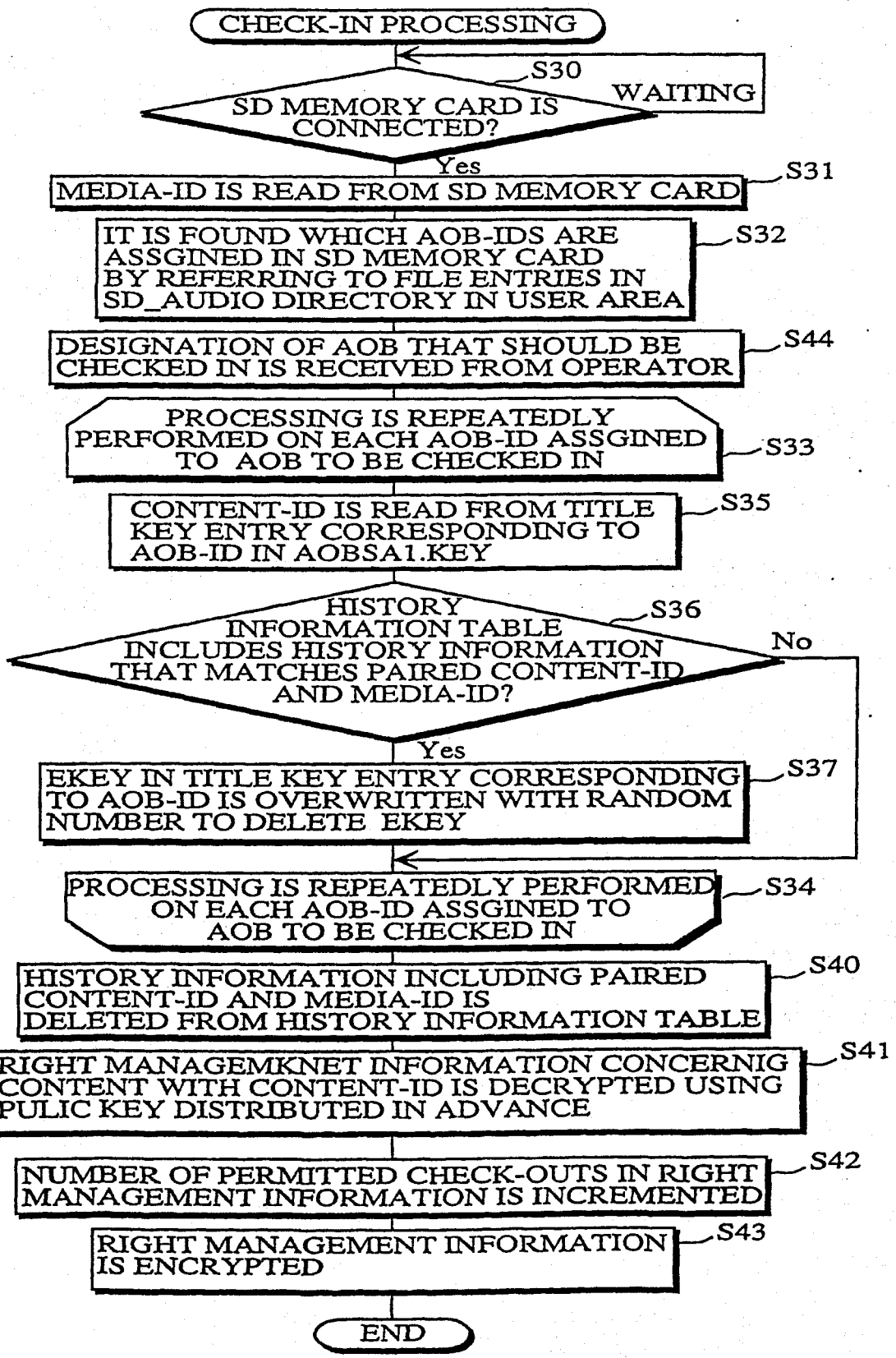
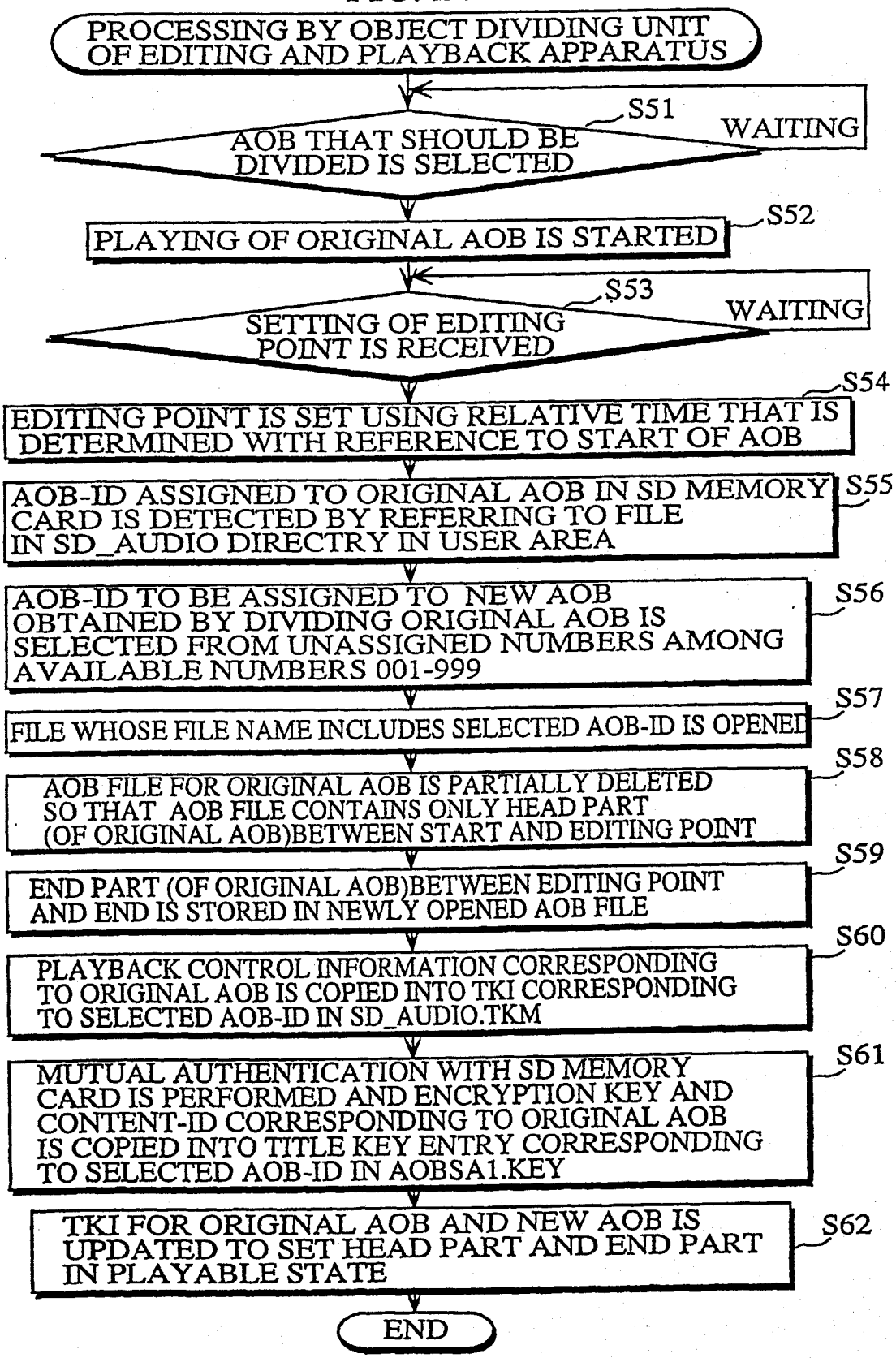

CHECK-IN PROCESSING
S30
WAITING
SD MEMORY CARD IS CONNECTED?
Yes
S31
MEDIA-ID IS READ FROM SD MEMORY CARD
S32
IT IS FOUND WHICH AOB-IDS ARE ASSGINED IN SD MEMORY CARD BY REFERRING TO FILE ENTRIES IN SD_AUDIO DIRECTORY IN USER AREA
S44
DESIGNATION OF AOB THAT SHOULD BE CHECKED IN IS RECEIVED FROM OPERATOR
S33
PROCESSING IS REPEATEDLY PERFORMED ON EACH AOB-ID ASSGINED TO AOB TO BE CHECKED IN
S35
CONTENT-ID IS READ FROM TITLE KEY ENTRY CORRESPONDING TO AOB-ID IN AOBSA1.KEY
S36
HISTORY INFORMATION TABLE INCLUDES HISTORY INFORMATION THAT MATCHES PAIRED CONTENT-ID AND MEDIA-ID?
No
Yes
S37
EKEY IN TITLE KEY ENTRY CORRESPONDING TO AOB-ID IS OVERWRITTEN WITH RANDOM NUMBER TO DELETE EKEY
S34
PROCESSING IS REPEATEDLY PERFORMED ON EACH AOB-ID ASSGINED TO AOB TO BE CHECKED IN
S40
HISTORY INFORMATION INCLUDING PAIRED CONTENT-ID AND MEDIA-ID IS DELETED FROM HISTORY INFORMATION TABLE
S41
RIGHT MANAGEMKNET INFORMATION CONCERNIG CONTENT WITH CONTENT-ID IS DECRYPTED USING PULIC KEY DISTRIBUTED IN ADVANCE
S42
NUMBER OF PERMITTED CHECK-OUTS IN RIGHT MANAGEMENT INFORMATION IS INCREMENTED
S43
RIGHT MANAGEMENT INFORMATION IS ENCRYPTED
END

FIG. 24


PROCESSING BY OBJECT DIVIDING UNIT OF EDITING AND PLAYBACK APPARATUS
S51
AOB THAT SHOULD BE DIVIDED IS SELECTED
WAITING
PLAYING OF ORIGINAL AOB IS STARTED
S52
S53
SETTING OF EDITING POINT IS RECEIVED
WAITING
S54
EDITING POINT IS SET USING RELATIVE TIME THAT IS DETERMINED WITH REFERENCE TO START OF AOB
AOB-ID ASSIGNED TO ORIGINAL AOB IN SD MEMORY CARD IS DETECTED BY REFERRING TO FILE IN SD_AUDIO DIRECTRY IN USER AREA
S55
AOB-ID TO BE ASSIGNED TO NEW AOB OBTAINED BY DIVIDING ORIGINAL AOB IS SELECTED FROM UNASSIGNED NUMBERS AMONG AVAILABLE NUMBERS 001-999
S56
FILE WHOSE FILE NAME INCLUDES SELECTED AOB-ID IS OPENED
S57
AOB FILE FOR ORIGINAL AOB IS PARTIALLY DELETED SO THAT AOB FILE CONTAINS ONLY HEAD PART (OF ORIGINAL AOB)BETWEEN START AND EDITING POINT
S58
END PART (OF ORIGINAL AOB)BETWEEN EDITING POINT AND END IS STORED IN NEWLY OPENED AOB FILE
S59
PLAYBACK CONTROL INFORMATION CORRESPONDING TO ORIGINAL AOB IS COPIED INTO TKI CORRESPONDING TO SELECTED AOB-ID IN SD_AUDIO.TKM
S60
MUTUAL AUTHENTICATION WITH SD MEMORY CARD IS PERFORMED AND ENCRYPTION KEY AND CONTENT-ID CORRESPONDING TO ORIGINAL AOB IS COPIED INTO TITLE KEY ENTRY CORRESPONDING TO SELECTED AOB-ID IN AOBSA1.KEY
S61
TKI FOR ORIGINAL AOB AND NEW AOB IS UPDATED TO SET HEAD PART AND END PART IN PLAYABLE STATE
S62
END

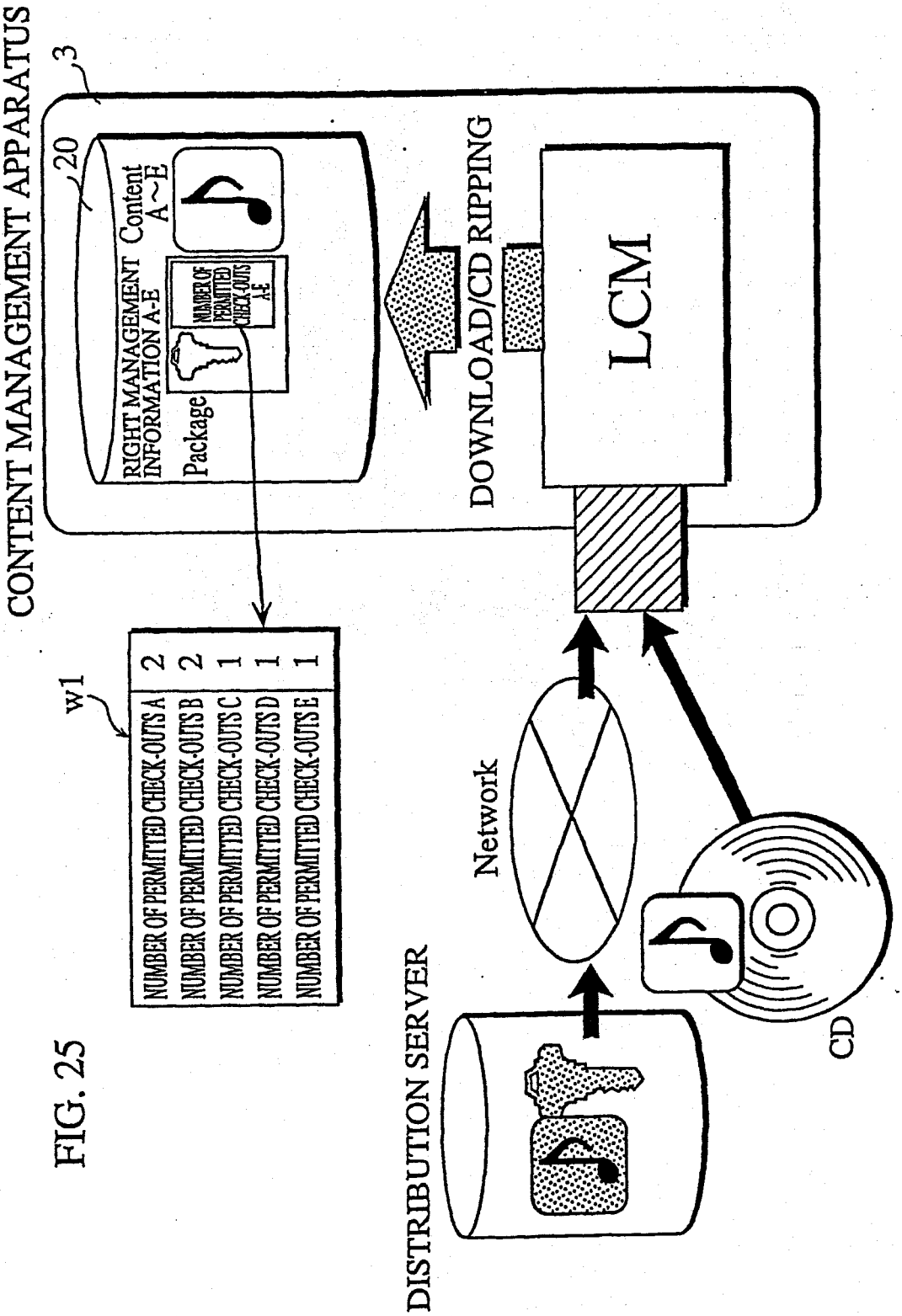

CONTENT MANAGEMENT APPARATUS
3
20
RIGHT MANAGEMENT INFORMATION A-E
Content A~E
Package
NUMBER OF PERMITTED CHECK-OUTS A-E
DOWNLOAD/CD RIPPING
LCM
w1
NUMBER OF PERMITTED CHECK-OUTS A 2
NUMBER OF PERMITTED CHECK-OUTS B 2
NUMBER OF PERMITTED CHECK-OUTS C 1
NUMBER OF PERMITTED CHECK-OUTS D 1
NUMBER OF PERMITTED CHECK-OUTS E 1
Network
DISTRIBUTION SERVER
CD

FIG. 25

FIG. 26

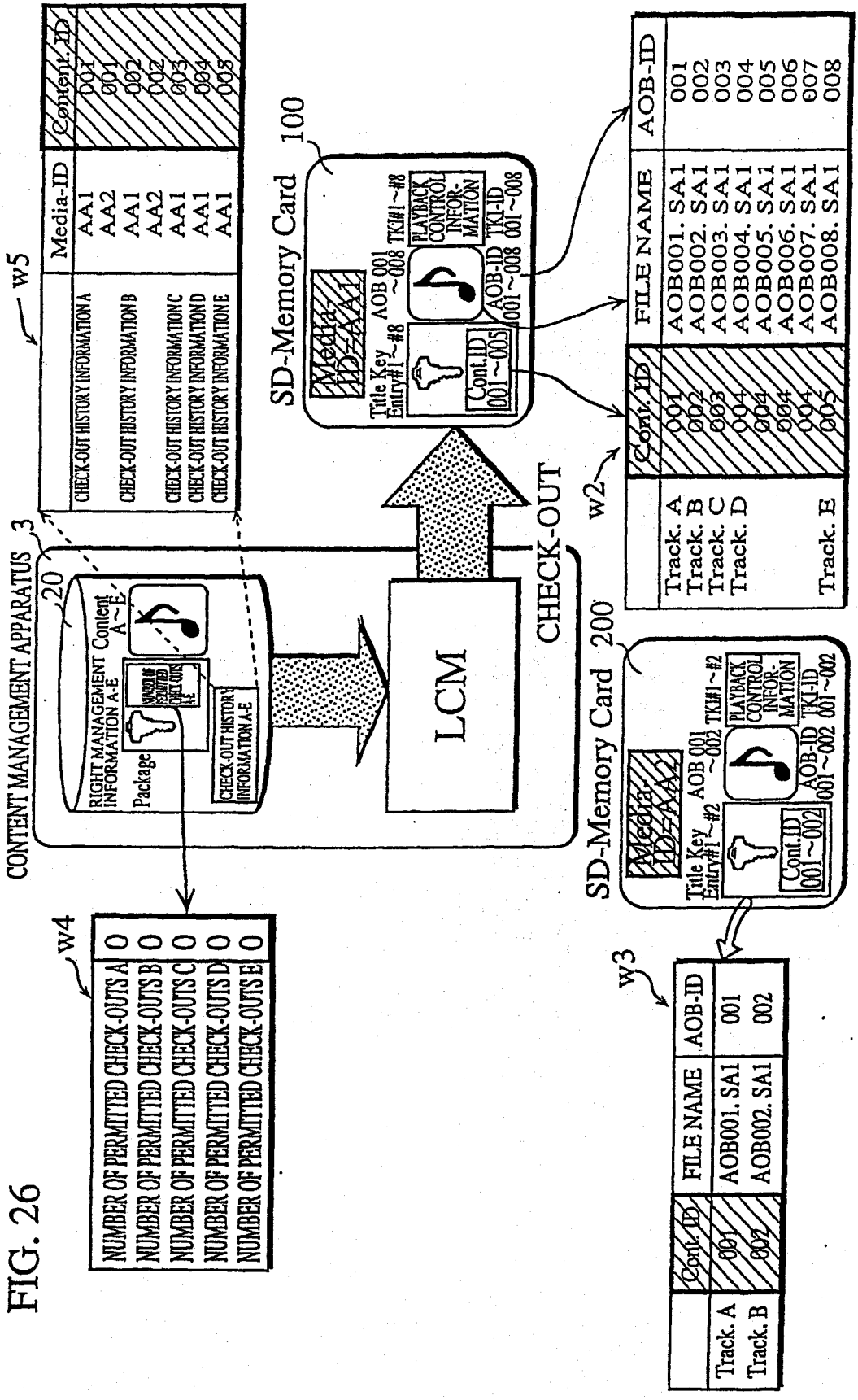

CONTENT MANAGEMENT APPARATUS
3
20
RIGHT MANAGEMENT INFORMATION A-E
Content A~E
Package
NUMBER OF PERMITTED CHECK-OUTS A-E
CHECK-OUT HISTORY INFORMATION A-E
LCM
CHECK-OUT
w5
CHECK-OUT HISTORY INFORMATION A
CHECK-OUT HISTORY INFORMATION B
CHECK-OUT HISTORY INFORMATION C
CHECK-OUT HISTORY INFORMATION D
CHECK-OUT HISTORY INFORMATION E
Media-ID
AA1
AA2
AA1
AA2
AA1
AA1
AA1
Content-ID
001
001
002
002
003
004
005
SD-Memory Card 100
Media ID=AA1
Title Key Entry#1~#8
AOB 001 ~008
TKI#1~#8
PLAYBACK CONTROL INFOR-MATION
Cont.ID 001~005
AOB-ID 001~008
TKI-ID 001~008
w2
Cont. ID
FILE NAME
AOB-ID
Track. A
Track. B
Track. C
Track. D
Track. E
001 AOB001. SA1 001
002 AOB002. SA1 002
003 AOB003. SA1 003
004 AOB004. SA1 004
004 AOB005. SA1 005
004 AOB006. SA1 006
004 AOB007. SA1 007
005 AOB008. SA1 008
SD-Memory Card 200
Media ID=AA1
Title Key Entry#1~#2
AOB 001 ~002
TKI#1~#2
PLAYBACK CONTROL INFOR-MATION
Cont.ID 001~002
AOB-ID 001~002
TKI-ID 001~002
w3
Track. A
Track. B
Cont. ID
FILE NAME
AOB-ID
001 AOB001. SA1 001
002 AOB002. SA1 002
w4
NUMBER OF PERMITTED CHECK-OUTS A 0
NUMBER OF PERMITTED CHECK-OUTS B 0
NUMBER OF PERMITTED CHECK-OUTS C 0
NUMBER OF PERMITTED CHECK-OUTS D 0
NUMBER OF PERMITTED CHECK-OUTS E 0

FIG. 27

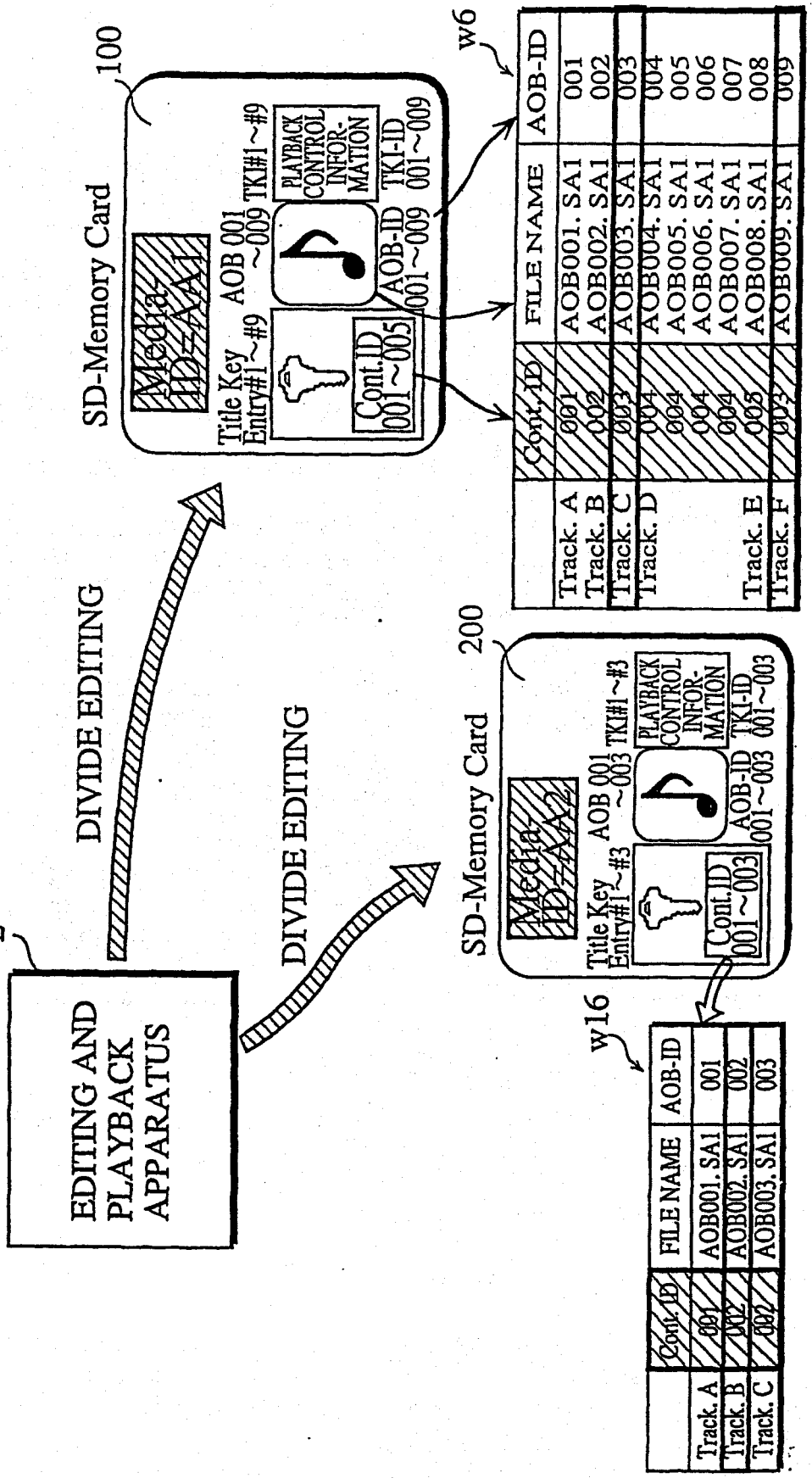

2
EDITING AND PLAYBACK APPARATUS
DIVIDE EDITING
DIVIDE EDITING
100
SD-Memory Card
Media ID=AA1
Title Key Entry#1~#9
Cont.ID 001~005
AOB 001~009
AOB-ID 001~009
TKI#1~#9
PLAYBACK CONTROL INFOR-MATION
TKI-ID 001~009
w6
Track. A
Track. B
Track. C
Track. D
Track. E
Track. F
Cont. ID
FILE NAME
AOB-ID
001
002
003
004
004
004
004
005
AOB001. SA1
AOB002. SA1
AOB003. SA1
AOB004. SA1
AOB005. SA1
AOB006. SA1
AOB007. SA1
AOB008. SA1
AOB009. SA1
001
002
003
004
005
006
007
008
009
200
SD-Memory Card
Media ID=AA2
Title Key Entry#1~#3
Cont.ID 001~003
AOB 001~003
AOB-ID 001~003
TKI#1~#3
PLAYBACK CONTROL INFOR-MATION
TKI-ID 001~003
w16
Track. A
Track. B
Track. C
Cont. ID
FILE NAME
AOB-ID
001
002
003
AOB001. SA1
AOB002. SA1
AOB003. SA1
001
002
003

FIG. 28

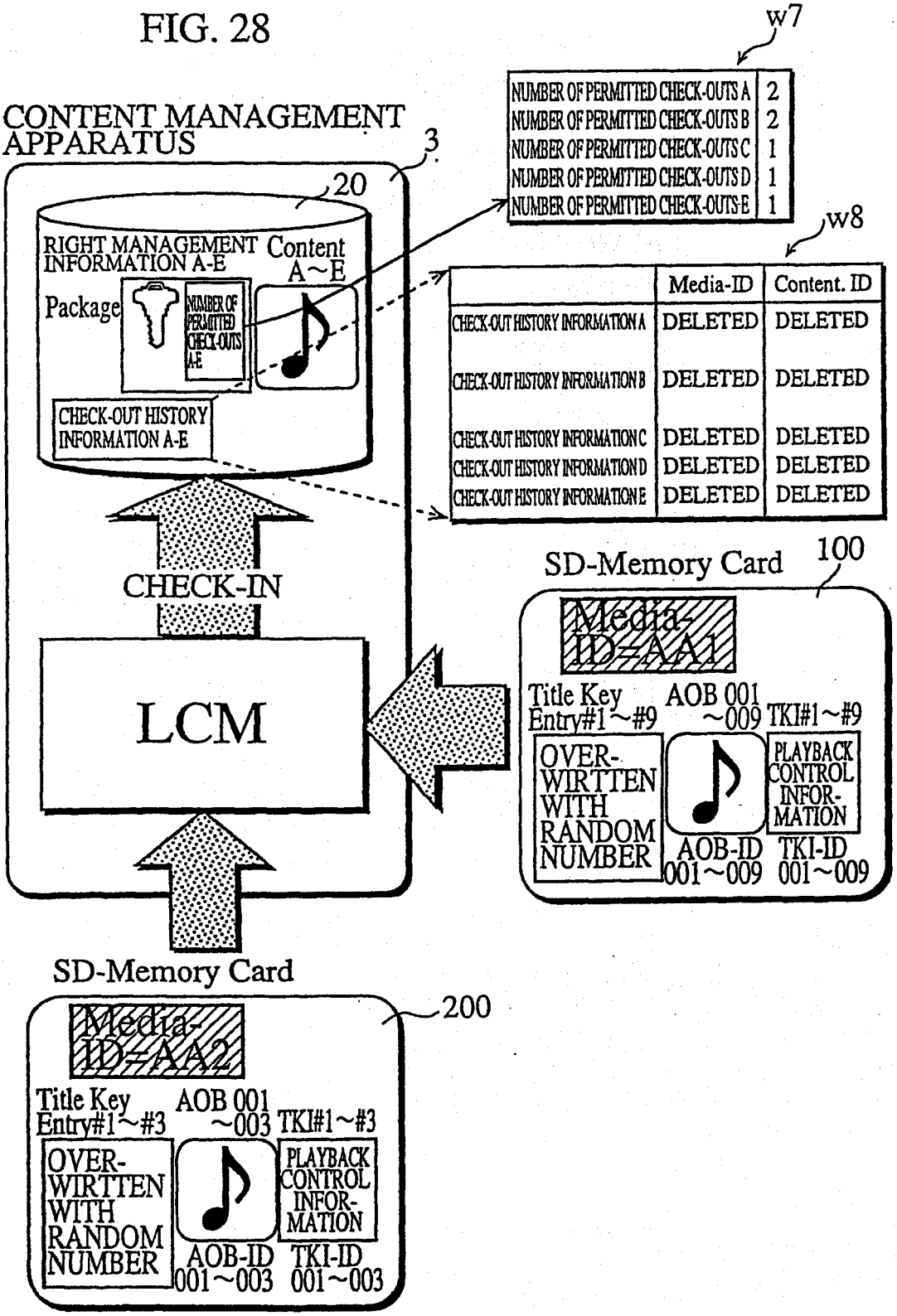
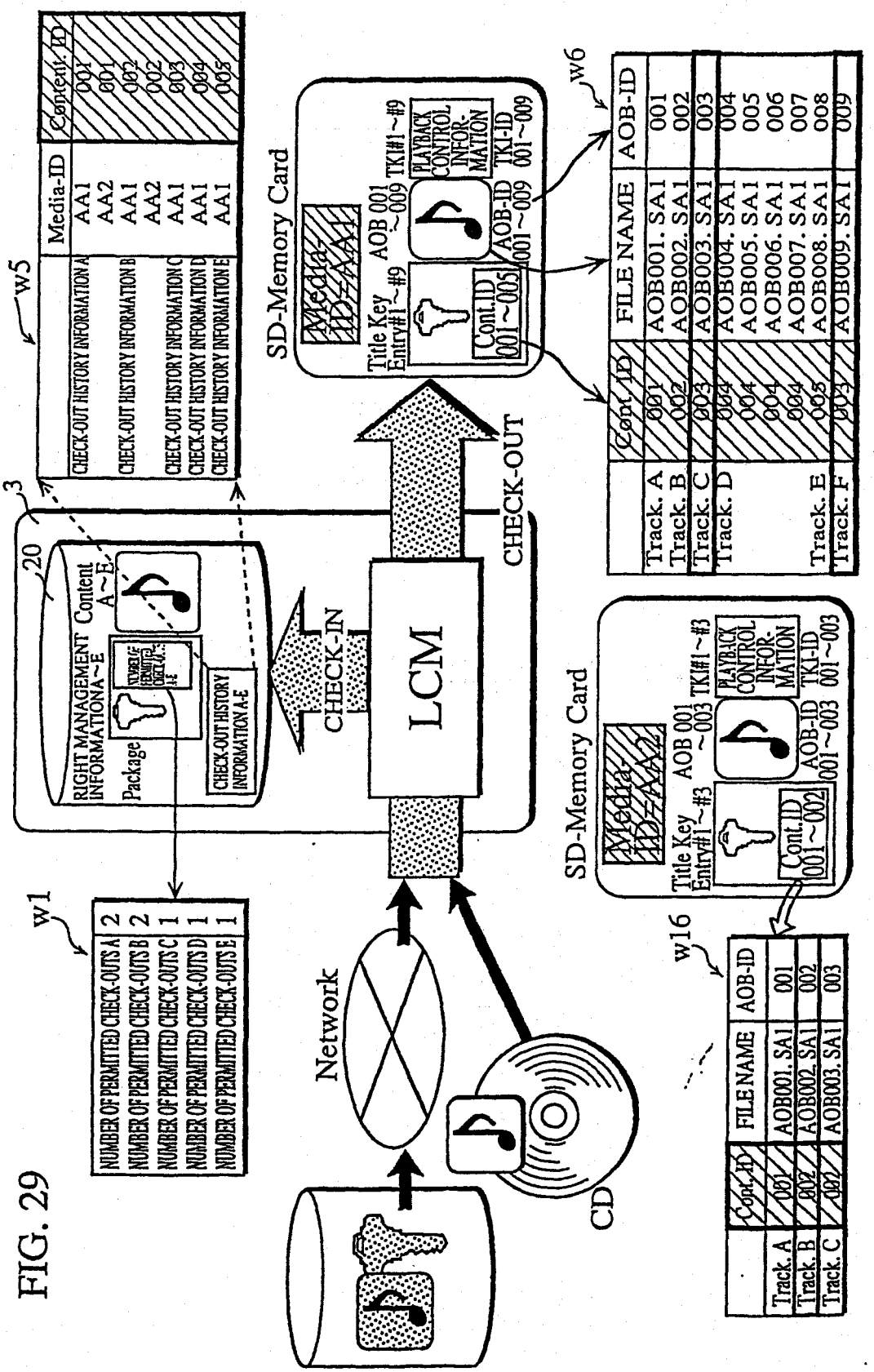

w7
NUMBER OF PERMITTED CHECK-OUTS A 2
NUMBER OF PERMITTED CHECK-OUTS B 2
NUMBER OF PERMITTED CHECK-OUTS C 1
NUMBER OF PERMITTED CHECK-OUTS D 1
NUMBER OF PERMITTED CHECK-OUTS E 1
CONTENT MANAGEMENT APPARATUS
3
20
RIGHT MANAGEMENT INFORMATION A-E
Content A~E
Package
NUMBER OF PERMITTED CHECK-OUTS A-E
CHECK-OUT HISTORY INFORMATION A-E
w8
Media-ID
Content. ID
CHECK-OUT HISTORY INFORMATION A DELETED DELETED
CHECK-OUT HISTORY INFORMATION B DELETED DELETED
CHECK-OUT HISTORY INFORMATION C DELETED DELETED
CHECK-OUT HISTORY INFORMATION D DELETED DELETED
CHECK-OUT HISTORY INFORMATION E DELETED DELETED
CHECK-IN
LCM
SD-Memory Card
100
Media-ID=AA1
Title Key Entry#1~#9
AOB 001~009
TKI#1~#9
OVER-WIRTTEN WITH RANDOM NUMBER
PLAYBACK CONTROL INFOR-MATION
AOB-ID 001~009
TKI-ID 001~009
SD-Memory Card
200
Media-ID=AA2
Title Key Entry#1~#3
AOB 001~003
TKI#1~#3
OVER-WIRTTEN WITH RANDOM NUMBER
PLAYBACK CONTROL INFOR-MATION
AOB-ID 001~003
TKI-ID 001~003

FIG. 29


w5
Media-ID
Content ID
CHECK-OUT HISTORY INFORMATION A
CHECK-OUT HISTORY INFORMATION B
CHECK-OUT HISTORY INFORMATION C
CHECK-OUT HISTORY INFORMATION D
CHECK-OUT HISTORY INFORMATION E
AA1
AA2
001
002
003
004
005
3
20
RIGHT MANAGEMENT INFORMATION A~E
Content A~E
Package
CHECK-OUT HISTORY INFORMATION A-E
CHECK-IN
LCM
CHECK-OUT
SD-Memory Card
Media ID=AA1
Title Key Entry#1~#9
AOB 001 ~009
TKI#1~#9
Cont.ID 001~005
AOB-ID 001~009
TKI-ID 001~009
PLAYBACK CONTROL INFOR-MATION
w6
Cont. ID
FILE NAME
AOB-ID
Track. A
Track. B
Track. C
Track. D
Track. E
Track. F
AOB001. SA1
AOB002. SA1
AOB003. SA1
AOB004. SA1
AOB005. SA1
AOB006. SA1
AOB007. SA1
AOB008. SA1
AOB009. SA1
001
002
003
004
005
006
007
008
009
w1
NUMBER OF PERMITTED CHECK-OUTS A 2
NUMBER OF PERMITTED CHECK-OUTS B 2
NUMBER OF PERMITTED CHECK-OUTS C 1
NUMBER OF PERMITTED CHECK-OUTS D 1
NUMBER OF PERMITTED CHECK-OUTS E 1
Network
CD
SD-Memory Card
Media ID=AA1
Title Key Entry#1~#3
AOB 001 ~003
TKI#1~#3
Cont.ID 001~002
AOB-ID 001~003
TKI-ID 001~003
PLAYBACK CONTROL INFOR-MATION
w16
Cont. ID
FILE NAME
AOB-ID
Track. A
Track. B
Track. C
AOB001. SA1
AOB002. SA1
AOB003. SA1
001
002
003