[0004]

Non-Patent Document 1: Dynamic Adaptive Streaming over HTTP (MPEG-DASH)
(URL:http://mpeg.chiariglione.org/standards/mpeg-dash/media-presentation-description-and-segment-formats/text-isoiec-23009-12012-dam-1)

SUMMARY OF INVENTION

PROBLEMS TO BE SOLVED BY THE INVENTION

[0005]

However, easy reproduction of audio data of a predetermined group, of audio data of a plurality of groups, has not been considered.

[0006]

~~The present disclosure has been~~ Embodiments of the present invention are made in view of the foregoing~~, and enables~~ Embodiments of the present invention provide an easy reproduction of audio data of a desired group, of audio data of a plurality of groups.

SOLUTION TO PROBLEMS

[0007]

~~An information processing apparatus of a first aspect of the present disclosure is an information processing apparatus including a file generation unit that generates a file in which audio data of a plurality of kinds is divided into tracks for each one or more of the kinds and arranged, and information related to the plurality of kinds is arranged.~~

According to the first aspect of the present invention, there is provided an information processing apparatus comprising: a file generation unit configured to allocate a track to an audio stream made of one track including a plurality

of groups, the group being indicated with a group ID and being configured from one or more audio elements, for each of the groups, to generate a file made of a plurality of the tracks.

[0008]

~~An information processing method of the first aspect of the present disclosure corresponds to the information processing apparatus of the first aspect of the present disclosure.~~

According to a second aspect of the present invention, there is provided an information processing method comprising the step of: allocating a track to an audio stream made of one track including a plurality of groups, the group being indicated with a group ID and being configured from one or more audio elements, for each of the groups, to generate a file made of a plurality of the tracks.

[0009]

In the ~~first~~above aspects of the present ~~disclosure~~ invention, the file in which audio data of a plurality of kinds is divided into tracks for each one or more of the kinds and arranged, and information related to the plurality of kinds is arranged is generated.

[0010]

~~An information processing apparatus of a second aspect of the present disclosure is an information processing apparatus including a reproduction unit that reproduces, from a file in which audio data of a plurality of kinds is divided into tracks for each one or more of the kinds and arranged, and information related to the plurality of kinds is arranged, the audio data in a predetermined track.~~

According to a third aspect of the present invention, there is provided an information processing apparatus comprising: a reproduction unit configured to reproduce a predetermined track from a file made of a plurality of tracks, the file being generated by allocating, for each of groups, a track to an audio stream made of one track including a plurality of the groups, the group being indicated with a group ID and being configured from one or more audio elements.

[0011]

~~An information processing method of the second aspect of the present disclosure corresponds to the information processing apparatus of the second aspect of the present disclosure.~~

According to a fourth aspect of the present invention, there is provided an information processing method comprising the step of: reproducing a predetermined track from a file made of a plurality of tracks, the file being generated by

allocating, for each of groups, a track to an audio stream made of one track including plurality of the groups, the group being indicated with a group ID and being configured from one or more audio elements.

[0012]

In the ~~second~~ above aspects of the present ~~disclosure~~invention, the audio data of a predetermined track is reproduced from the file in which audio data of a plurality of kinds is divided into tracks for each one or more of the kinds and arranged, and information related to the plurality of kinds is arranged.

[0013]

Note that the information processing apparatuses of the ~~first and second~~ above aspects can be realized by causing a computer to execute a program.

[0014]

Further, to realize the information processing

apparatuses of the ~~first and second~~ above aspects, the program executed by the computer can be transmitted through a transmission medium, or can be recorded on a recording medium and provided.

EFFECTS OF THE INVENTION

[0015]

According to the ~~first aspect~~ above aspects of the present ~~disclosure~~ invention, a file can be generated. Further, according to the ~~first aspect~~ above aspects of the present ~~disclosure~~invention, a file that enables easy reproduction of audio data of a predetermined kind, of audio data of a plurality of kinds, can be generated.

[0016]

According to the ~~second aspect~~above aspects of the present ~~disclosure~~invention, audio data can be reproduced. Further, according to the ~~second aspect~~ above aspects of the present ~~disclosure~~invention, audio data of a predetermined kind, of audio data of a plurality of kinds, can be easily reproduced.

BRIEF DESCRIPTION OF DRAWINGS

[0017]

Fig. 1 is a diagram illustrating a structure of an MPD file.

Fig. 2 is a diagram illustrating relationship among "Period", "Representation", and "Segment".

Fig. 3 is a diagram illustrating a hierarchical structure of the MPD file.

Fig. 4 is a diagram illustrating relationship between a structure and a time axis of the MPD file.

Fig. 5 is a diagram for describing an outline of a track of a 3D audio file format of MP4.