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Goodman et al.

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(54) **AUTOMATIC HIERARCHICAL
CATEGORIZATION OF MUSIC BY
METADATA**

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patent is extended or adjusted under 35
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(51) **Int. Cl.**⁷ **G06F 17/30**

(52) **U.S. Cl.** **707/4; 707/3; 707/102;**
386/46

(58) **Field of Search** 84/609, 601, 602,
84/611-614; 707/104.1, 3, 4, 102; 386/46

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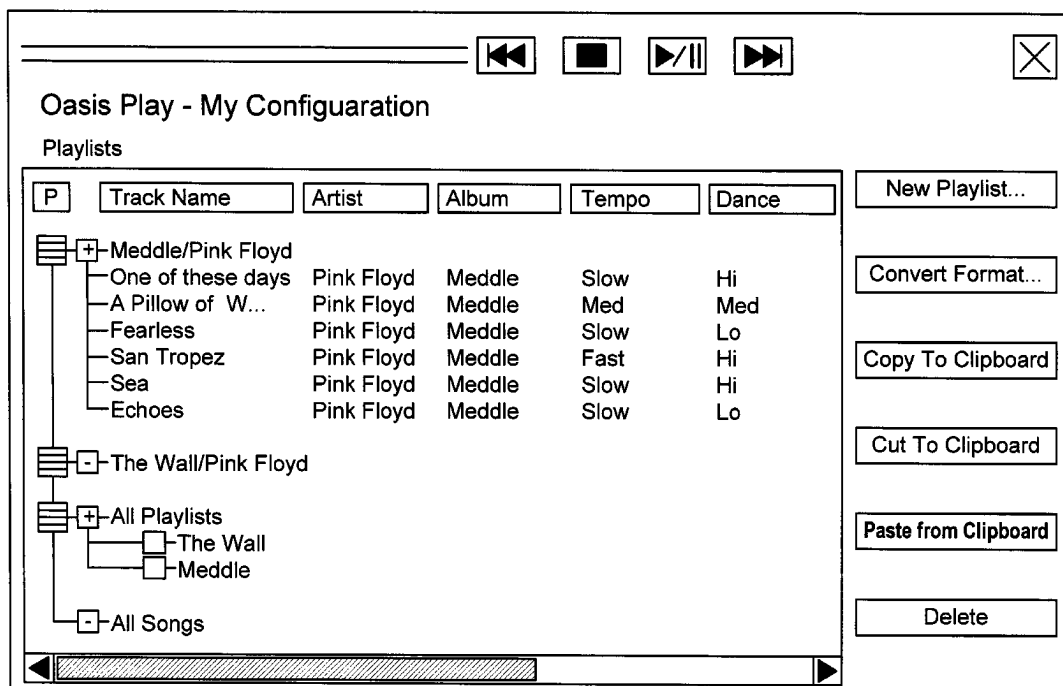
Primary Examiner—Charles Rones

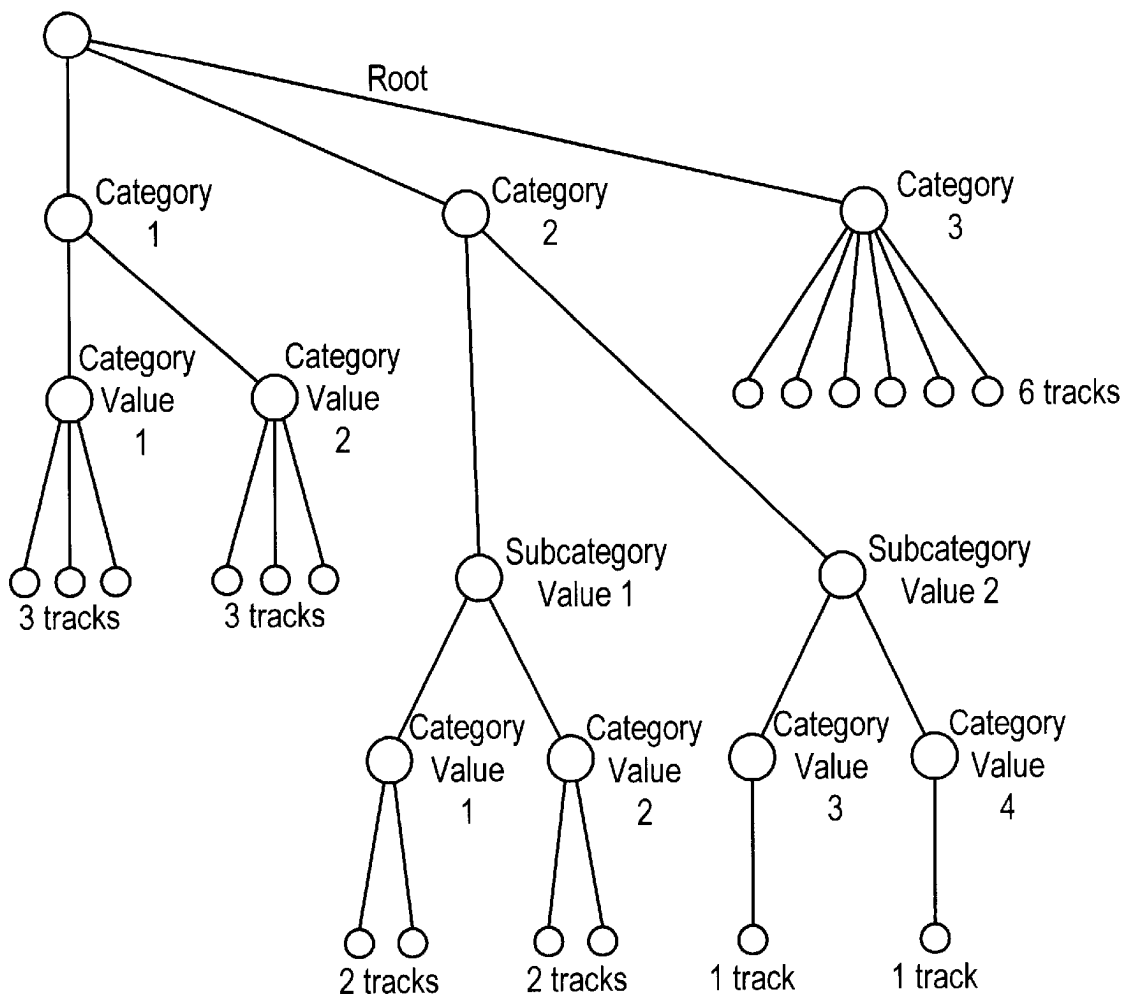
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Creative Technology LTD

(57) **ABSTRACT**

A method, performed by software executing on the proces-
sor of a portable music playback device, that automatically
files tracks according to hierarchical structure of categories
to organize tracks in a logical order. A user interface is
utilized to change the hierarchy, view track names, and
select tracks for playback or other operations.

16 Claims, 12 Drawing Sheets





For example:

Category 1 = Album Name

Category Value 1 = Abbey Road

Category Value 2 = Hits from the 60's

Category 2 = Artist Name

Subcategory Value 1 = British Artists

Subcategory Value 2 = American Artists

Category Value 1 = The Beatles

Category Value 2 = Petula Clark

Category Value 3 = Mamas and the Papas

Category Value 4 = Nick Drake

Category 3 = All tracks

FIG. 1.

V1.0
Albums|0x01|BLBN
Artists|0x01|BCBMBN
All Tracks|0x01|BN

FIG. 2.

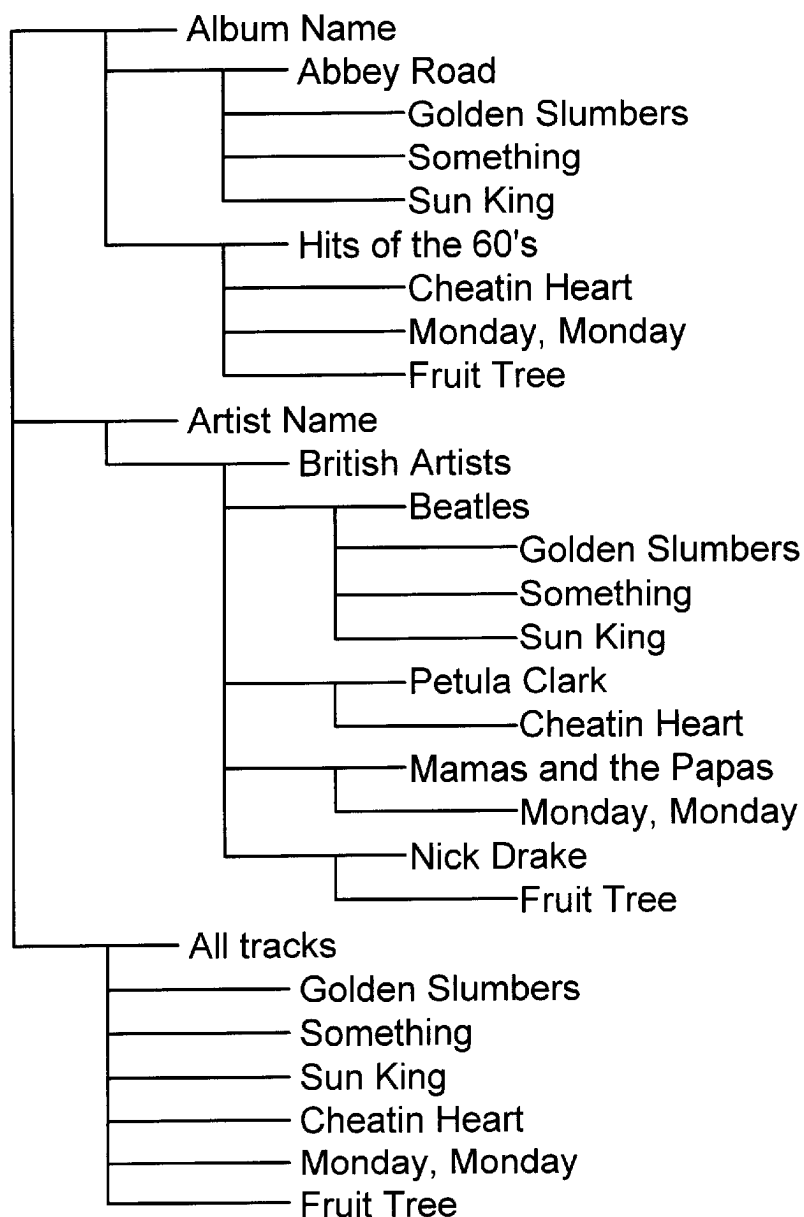


FIG. 3.

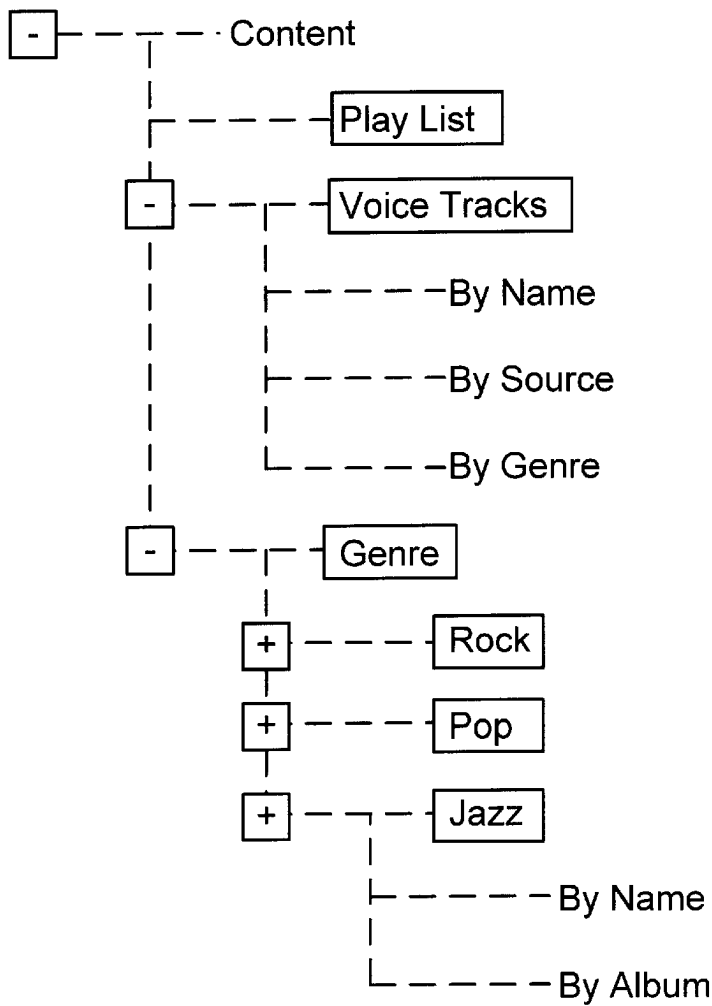


FIG. 4.

file data	album	name	genre	type
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FIG. 5.

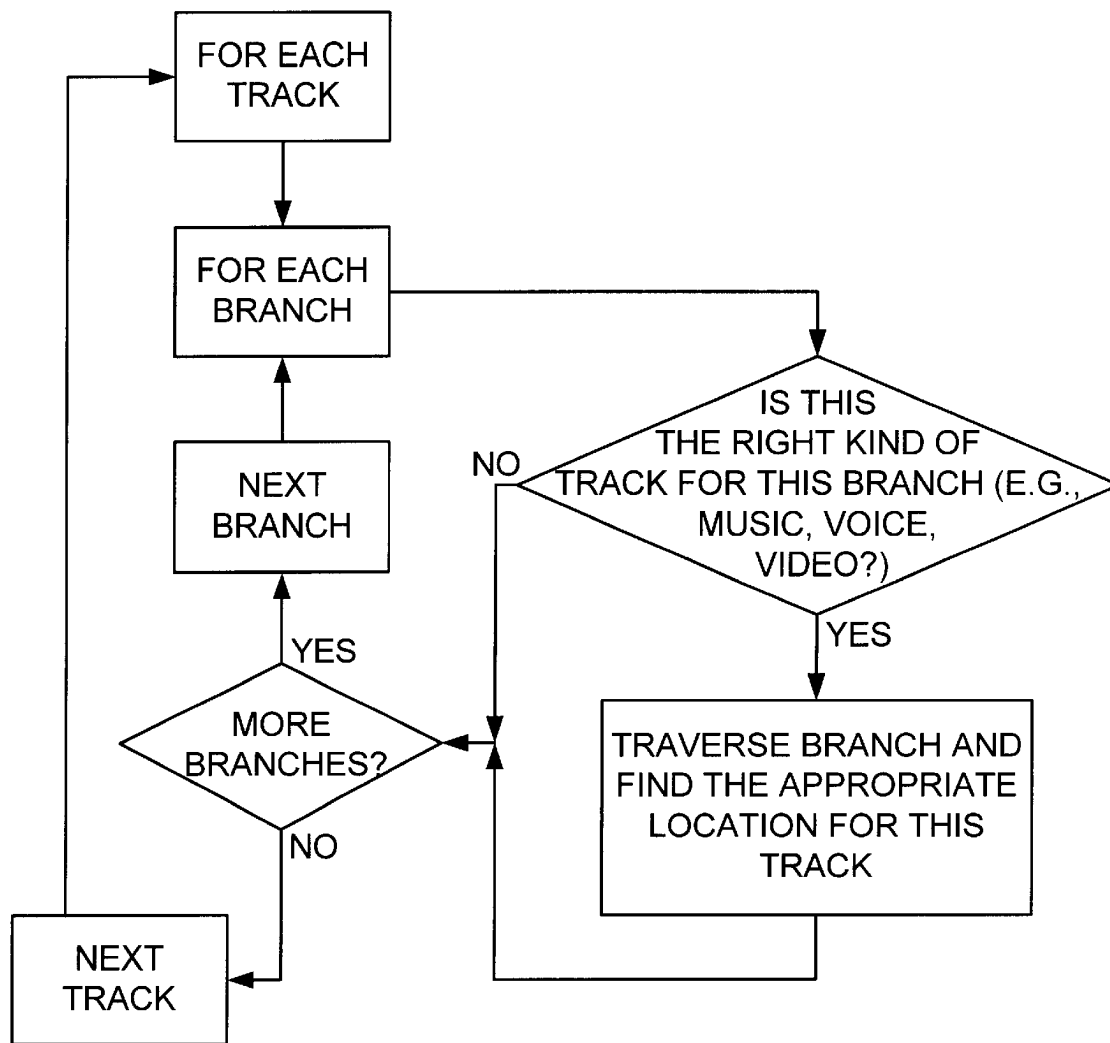


FIG. 6.

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