

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

VERANCE CORP.,

Petitioner,

v.

MZ AUDIO SCIENCES, LLC,

Patent Owner.

CASE: IPR2022-01544

Patent No. 7,289,961 B2

PETITIONER'S DEMONSTRATIVES FOR ORAL ARGUMENT

Verance Corp. v. MZ Audio Sci

IPR2022-01544

U.S. Patent No. 7,289,961 B2

Petitioner Verance's Demonstr

Oral Hearing
January 25, 2024

PETITIONER'S DEMONSTRATIVE EXHIBIT – NOT EVI

Grounds

Ground	Basis	Reference(s)
1	§ 103	Srinivasan, Cabot and Kudumakis
2	§ 103	Srinivasan, Cabot, Kudumakis and
3	§ 103	Kudumakis, Tilki and Cabot

Srinivasan-Cabot-Kudumakis Combinati

1. A method for embedding data in an audio signal, the method comprising:

- (a) dividing the audio signal into a plurality of time frames and, in each time frame, a plurality of frequency components;
- (b) in each of at least some of the plurality of time frames, selecting at least two of the plurality of frequency components; and
- (c) altering a phase of at least one of the plurality of frequency components in accordance with the data to be embedded, wherein:

step (b) comprises selecting a fundamental tone and at least one overtone; and

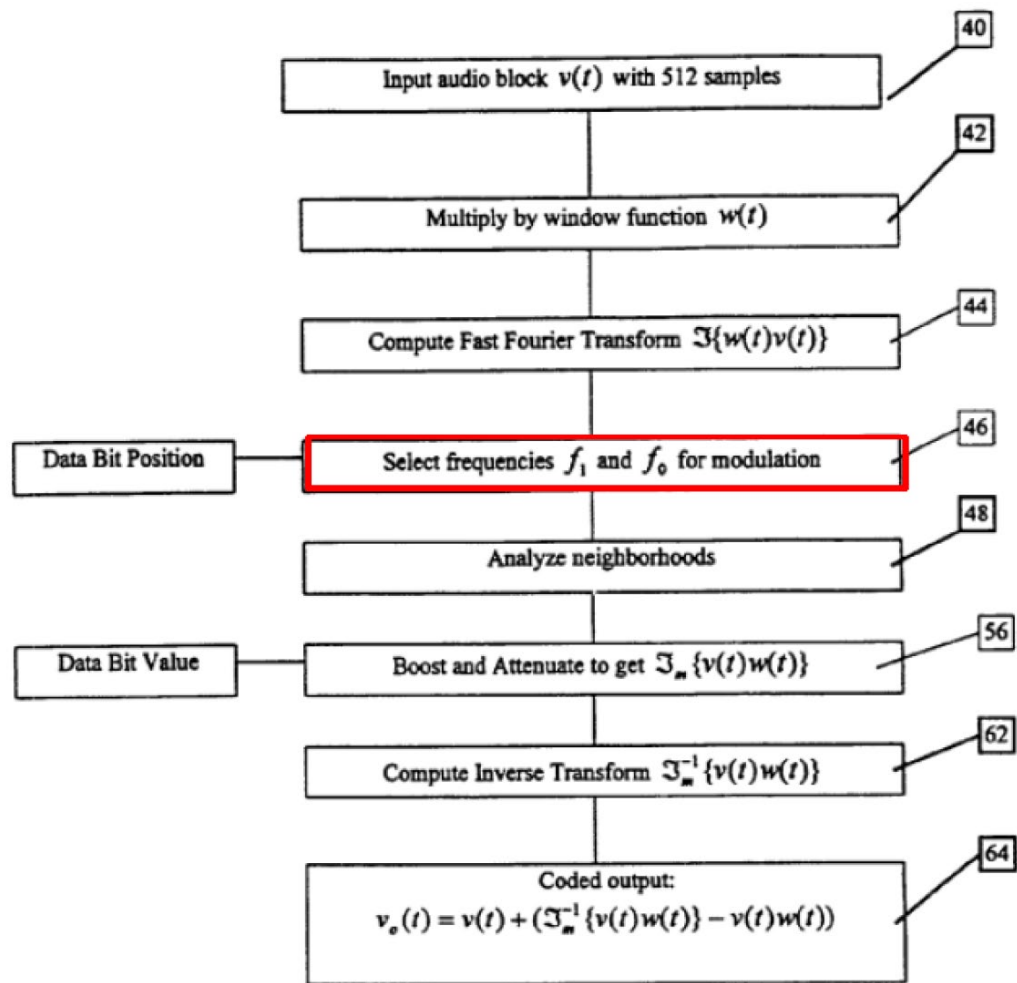
step (c) comprises quantizing a phase difference of the at least one overtone relative to the fundamental tone to embed at least one bit of the data to be embedded.

4. A method for signal, the method

- (a) dividing the and, in each components;
- (b) in each of at selecting at components;
- (c) determining least one of t accordance w
- (d) from the pha the embedded ing a fundam

Claims 6 and 9 are independent device claim

Srinivasan-Cabot-Kudumakis Combinati



Srinivasan, FIGURE 2

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