



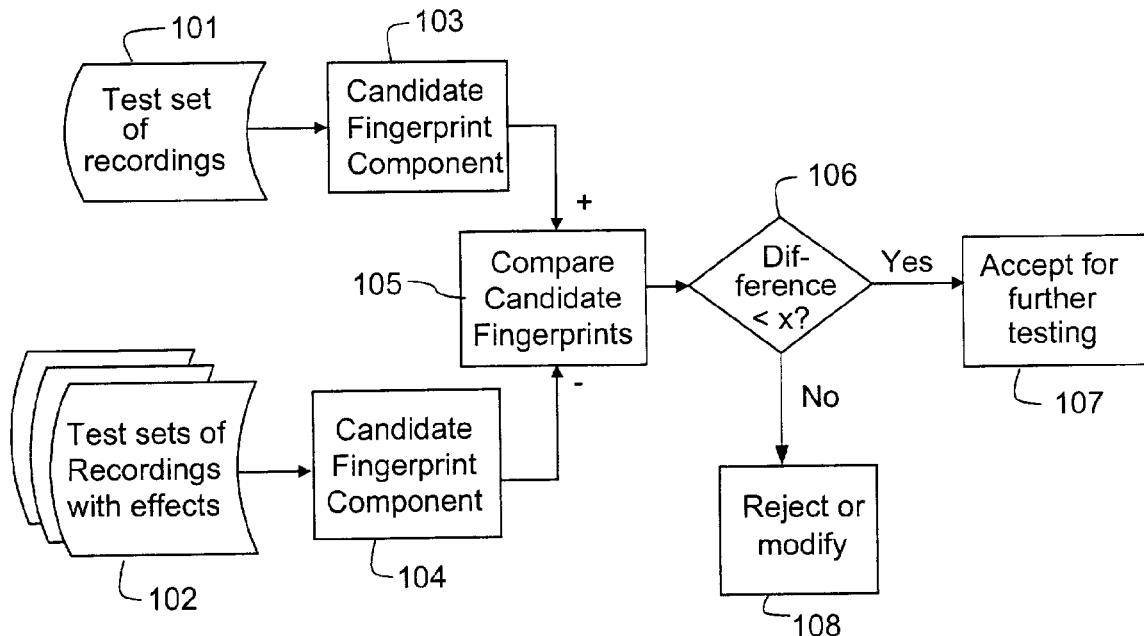
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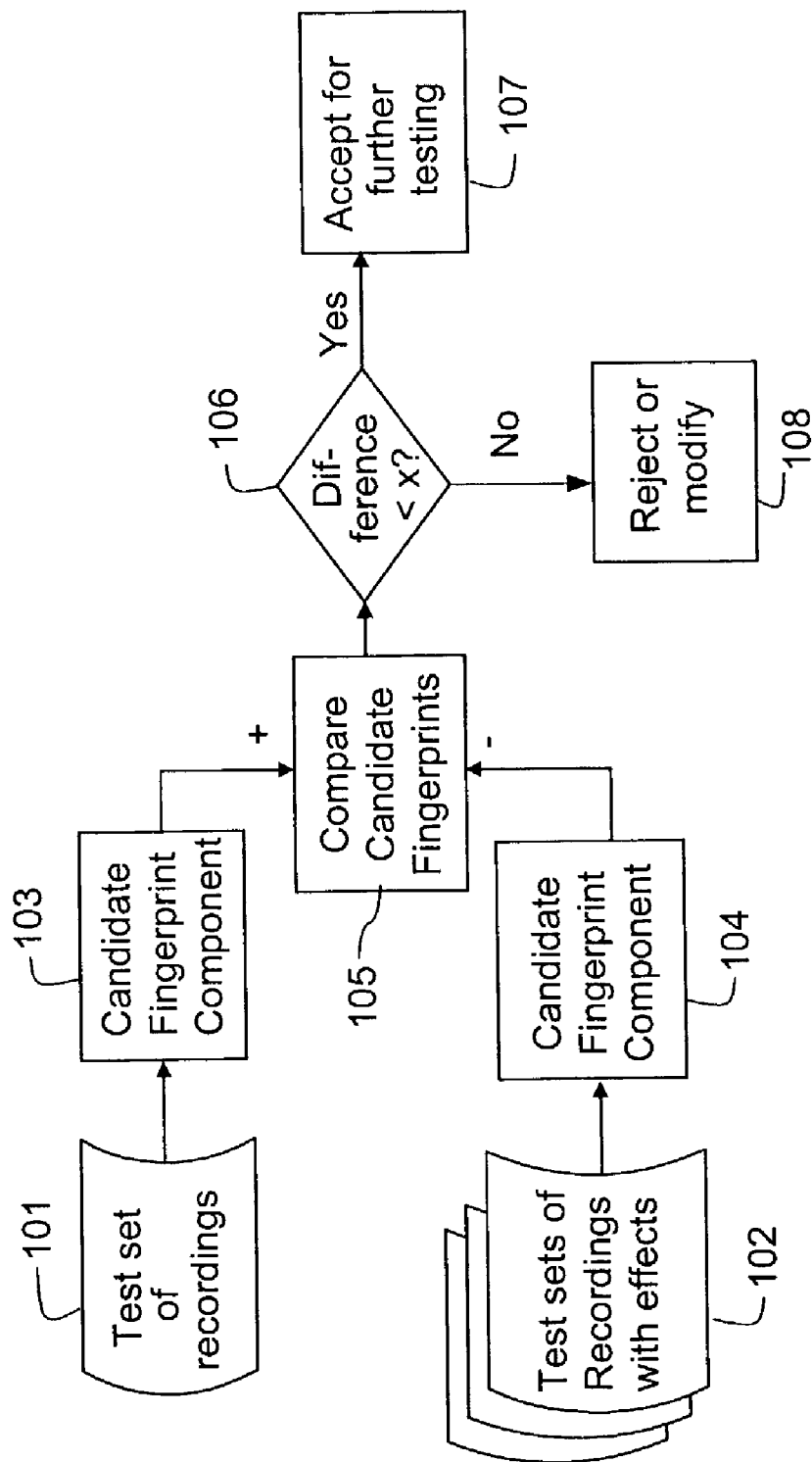
(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2003/0086341 A1**  
**Wells et al.** (43) **Pub. Date: May 8, 2003**(54) **AUTOMATIC IDENTIFICATION OF SOUND RECORDINGS****Related U.S. Application Data**(75) Inventors: **Maxwell Wells**, Seattle, WA (US);  
**Vidya Venkatachalam**, Bellevue, WA (US); **Luca Cazzanti**, Bellevue, WA (US); **Kwan Fai Cheung**, Bellevue, WA (US); **Navdeep Dhillon**, Seattle, WA (US); **Somsak Sukittanon**, Seattle, WA (US)

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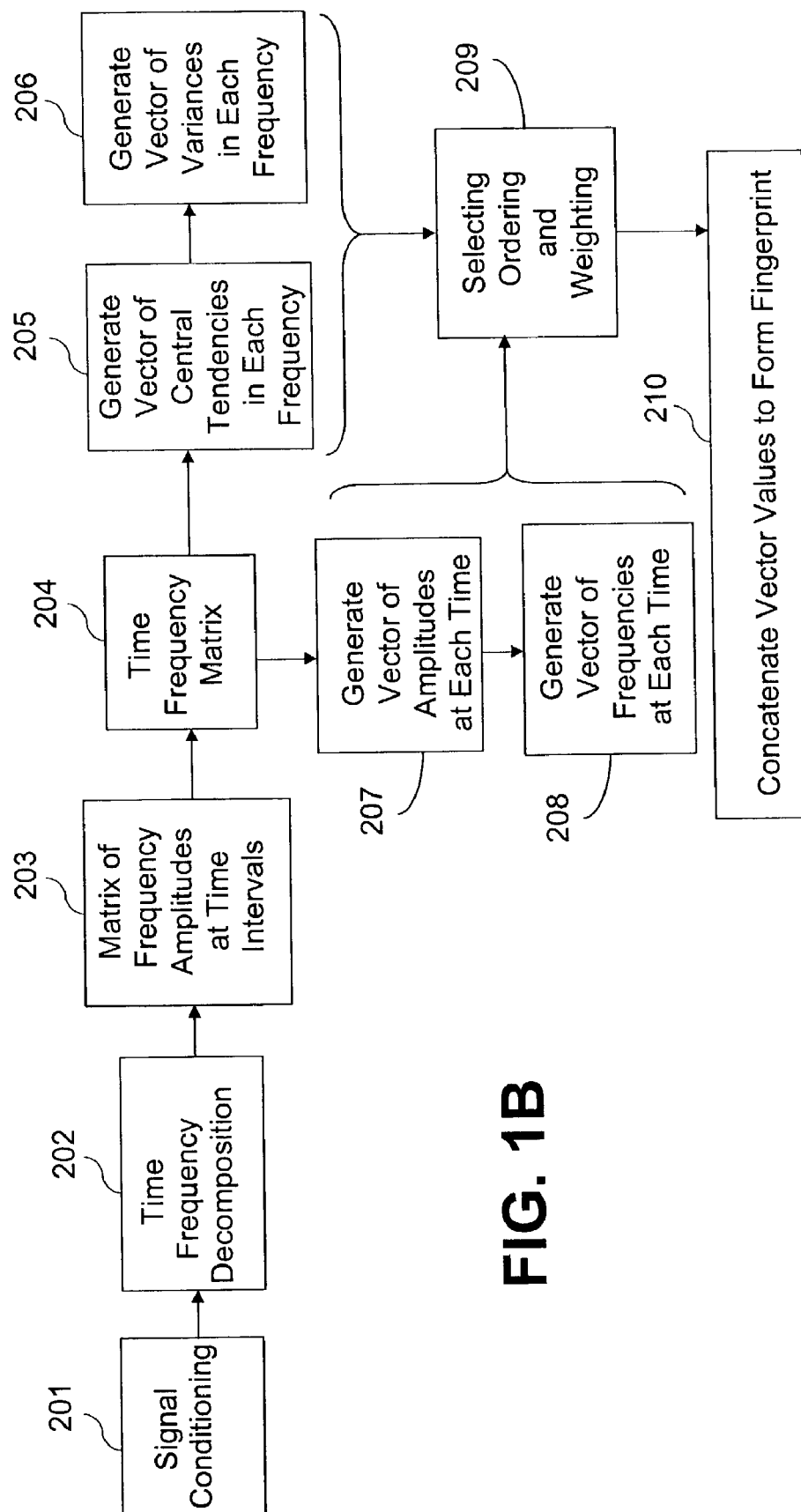
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(52) **U.S. Cl.** ..... **369/13.56**; 700/94; 705/51; 704/208Correspondence Address:  
**STAAS & HALSEY LLP**  
**700 11TH STREET, NW**  
**SUITE 500**  
**WASHINGTON, DC 20001 (US)**(73) Assignee: **GRACENOTE, INC.**, Berkeley, CA(21) Appl. No.: **10/200,034**(22) Filed: **Jul. 22, 2002**(57) **ABSTRACT**

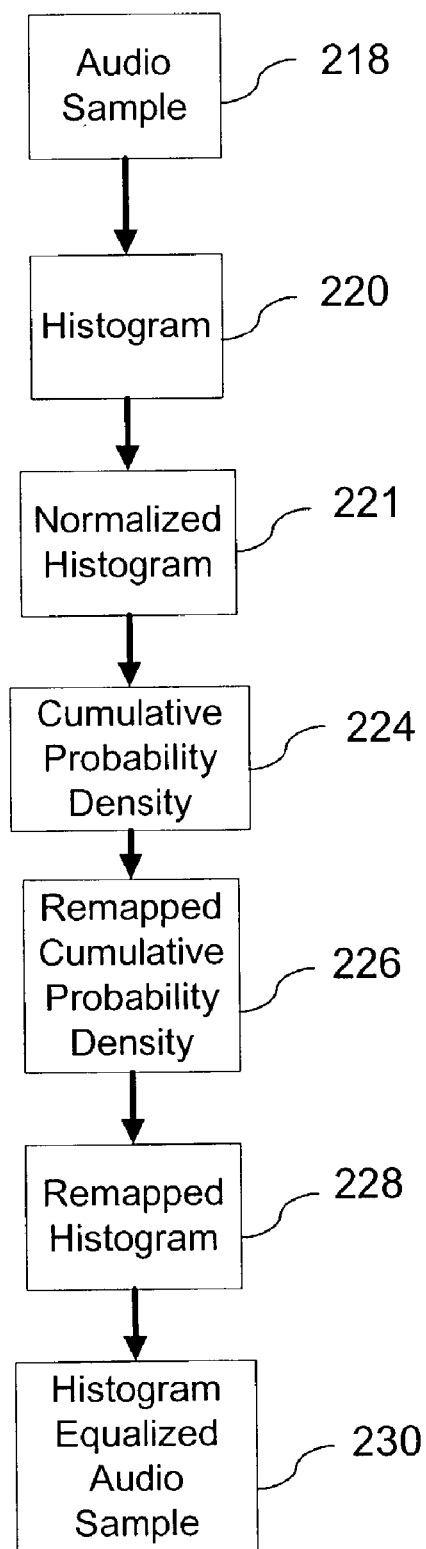
Copies of original sound recordings are identified by extracting features from the copy, creating a vector of those features, and comparing that vector against a database of vectors. Identification can be performed for copies of sound recordings that have been subjected to compression and other manipulation such that they are not exact replicas of the original. Computational efficiency permits many hundreds of queries to be serviced at the same time. The vectors may be less than 100 bytes, so that many millions of vectors can be stored on a portable device.

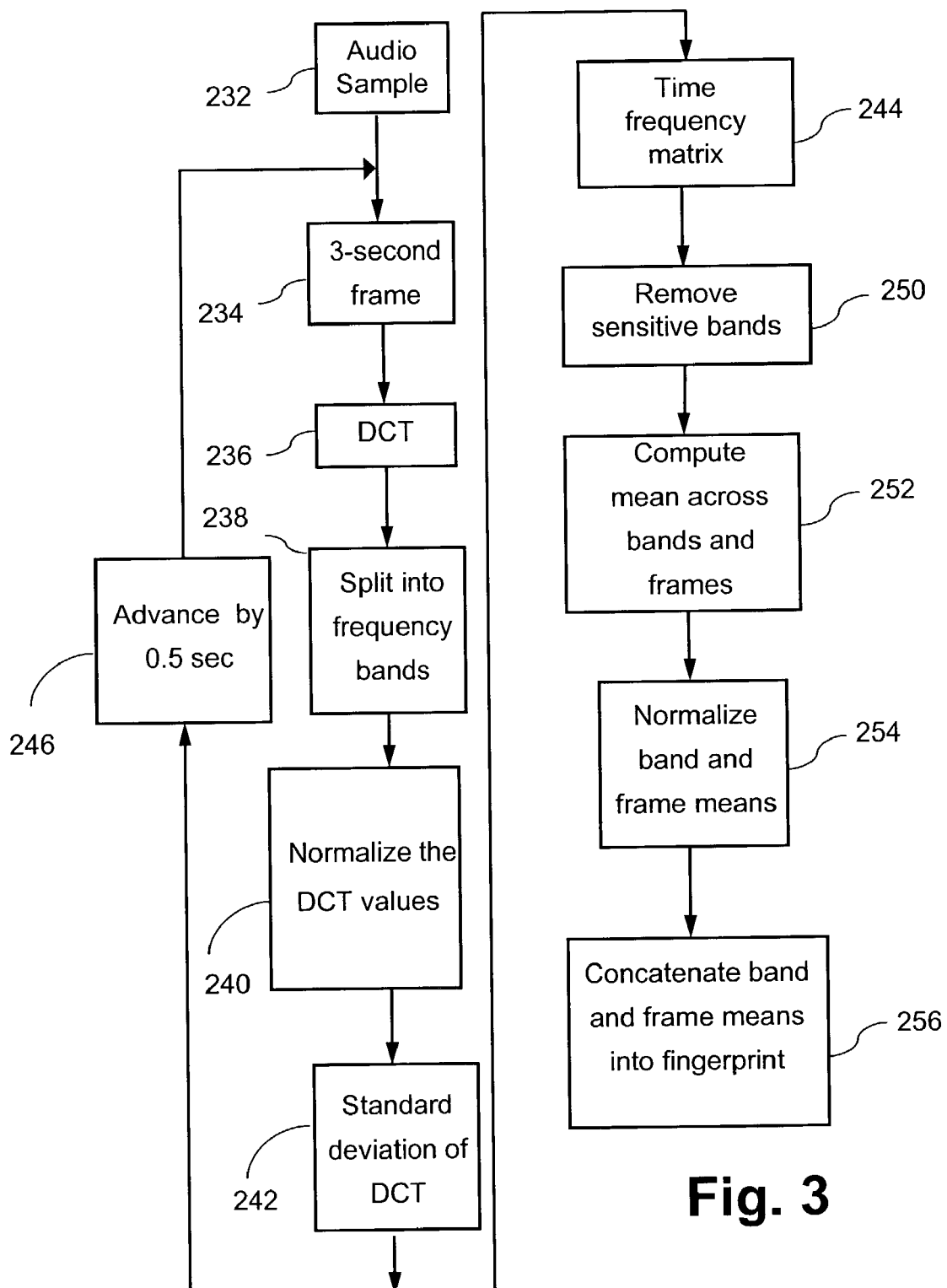




**FIG. 1A**

**FIG. 1B**

**FIG. 2**



**Fig. 3**

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