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# Tampering Detection in Digital Recordings Using Electric Network Frequency and Phase Angle

#### **Disclosure Number**

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### **Technology Summary**

This invention relates to the field of forensic authentication of digital audio recordings. In this invention, both frequency and phase angle with a corresponding reference database are used to do tampering detection of digital recordings, which result in more reliable detection. Results show that utilizing frequency and phase angle jointly can improve the reliability of tampering detection in authentication of digital recordings.

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