

(54) **APPARATUS FOR DETECTING THE FUNDAMENTAL FREQUENCIES PRESENT IN POLYPHONIC MUSIC**

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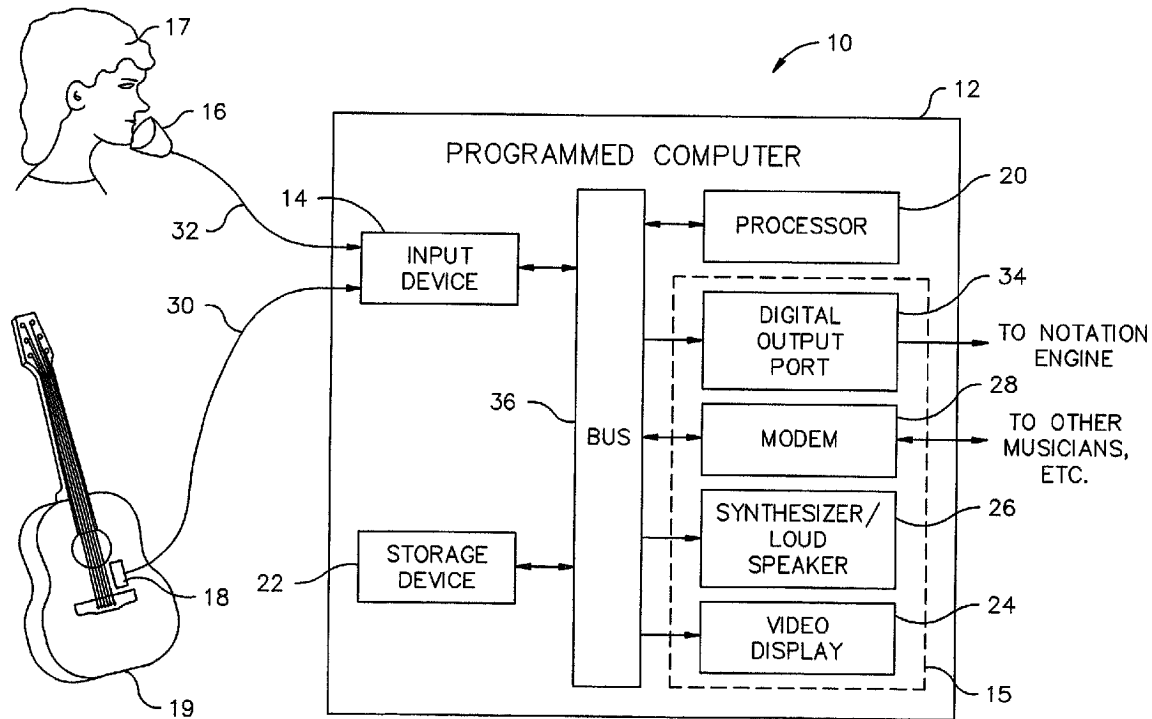
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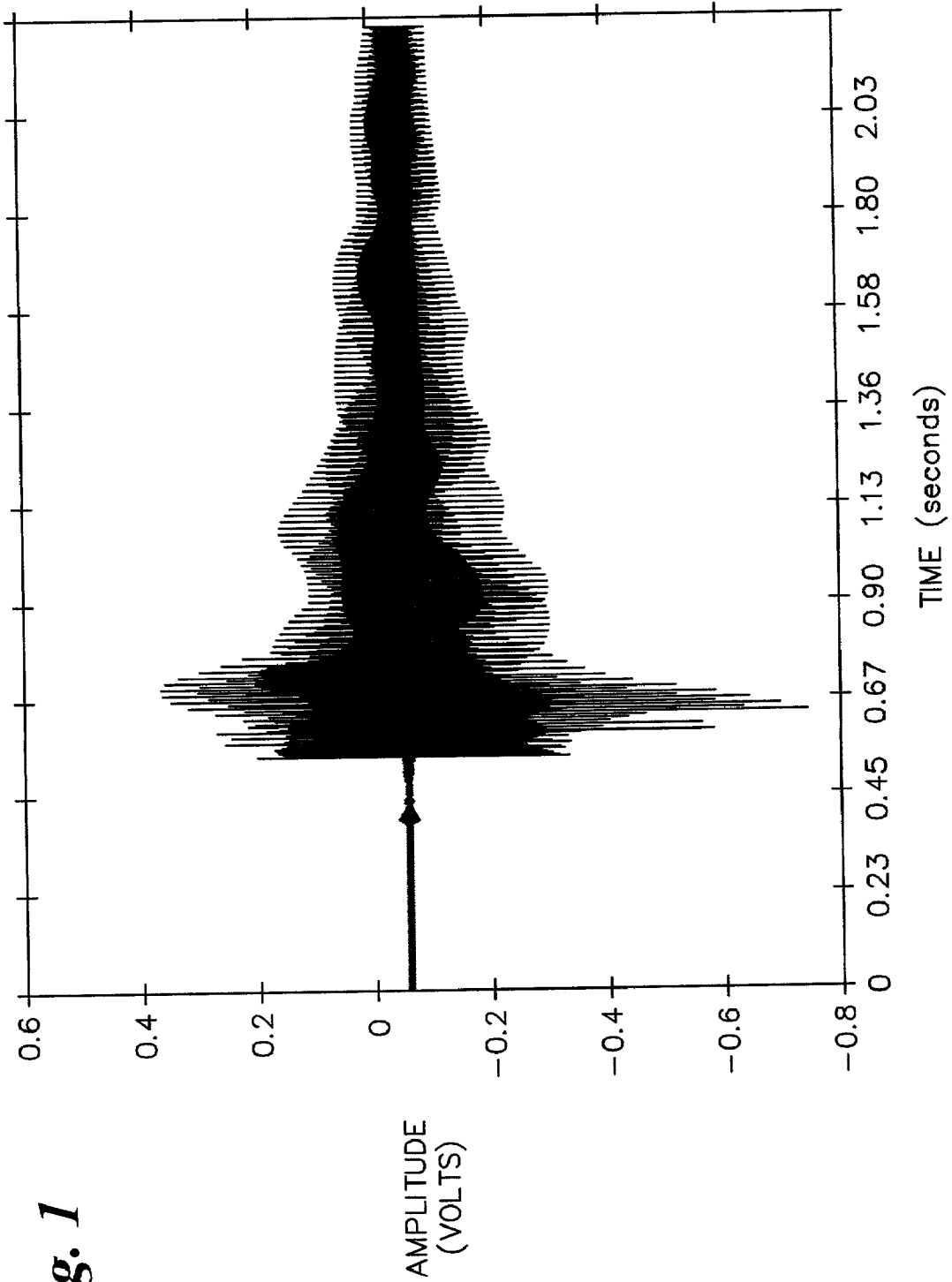
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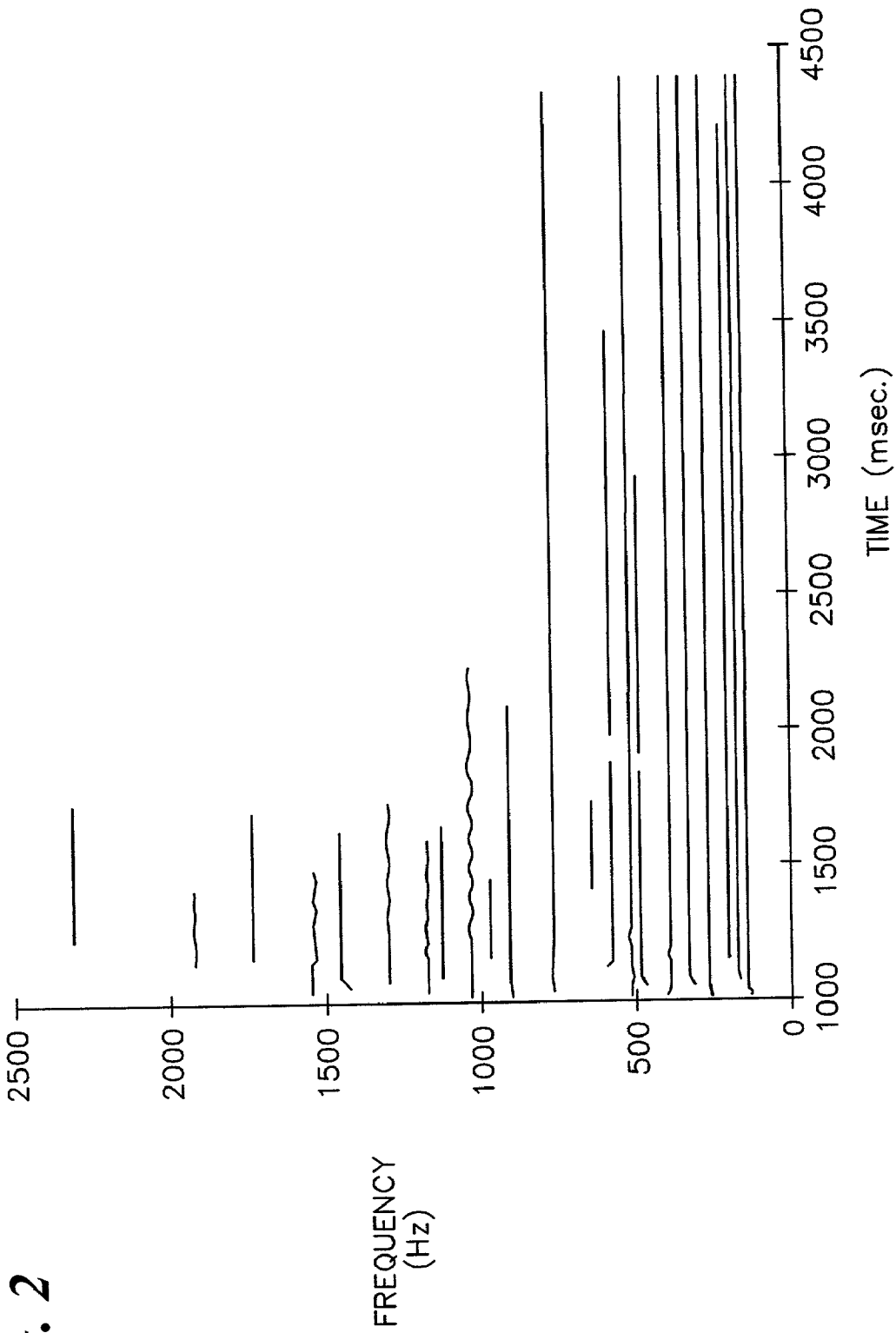
(57) **ABSTRACT**

A method for determining a fundamental frequency of a note in a musical signal comprising the steps of receiving the musical signal; determining a frequency of each of a plurality of tracks of the musical signal; generating a plurality of subharmonics for each track; and computing the fundamental frequency based on a frequency of at least one subharmonic selected from the plurality of subharmonics, the frequency of the at least one selected subharmonic being within a neighborhood of the frequency of the track having a lowest frequency.



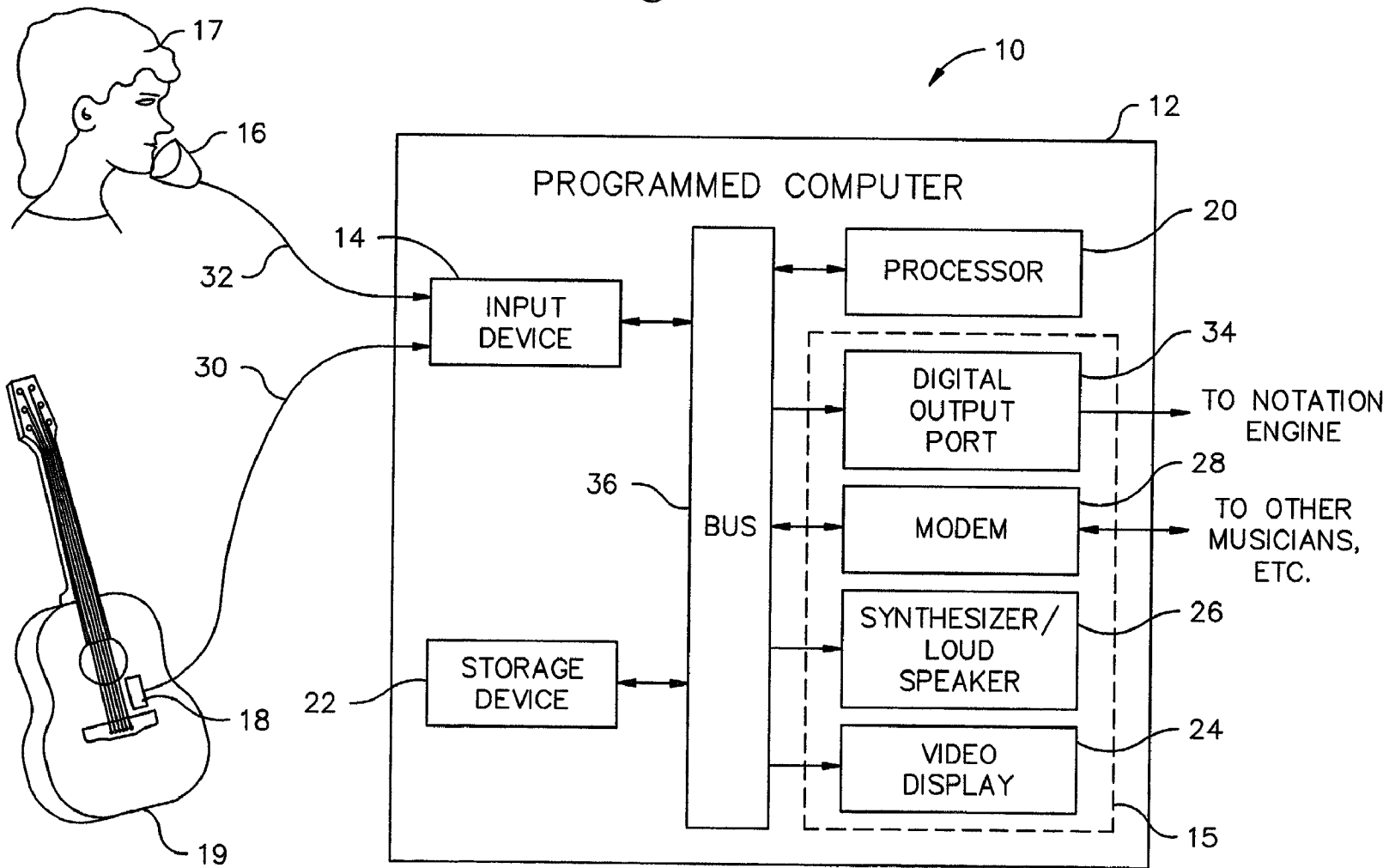


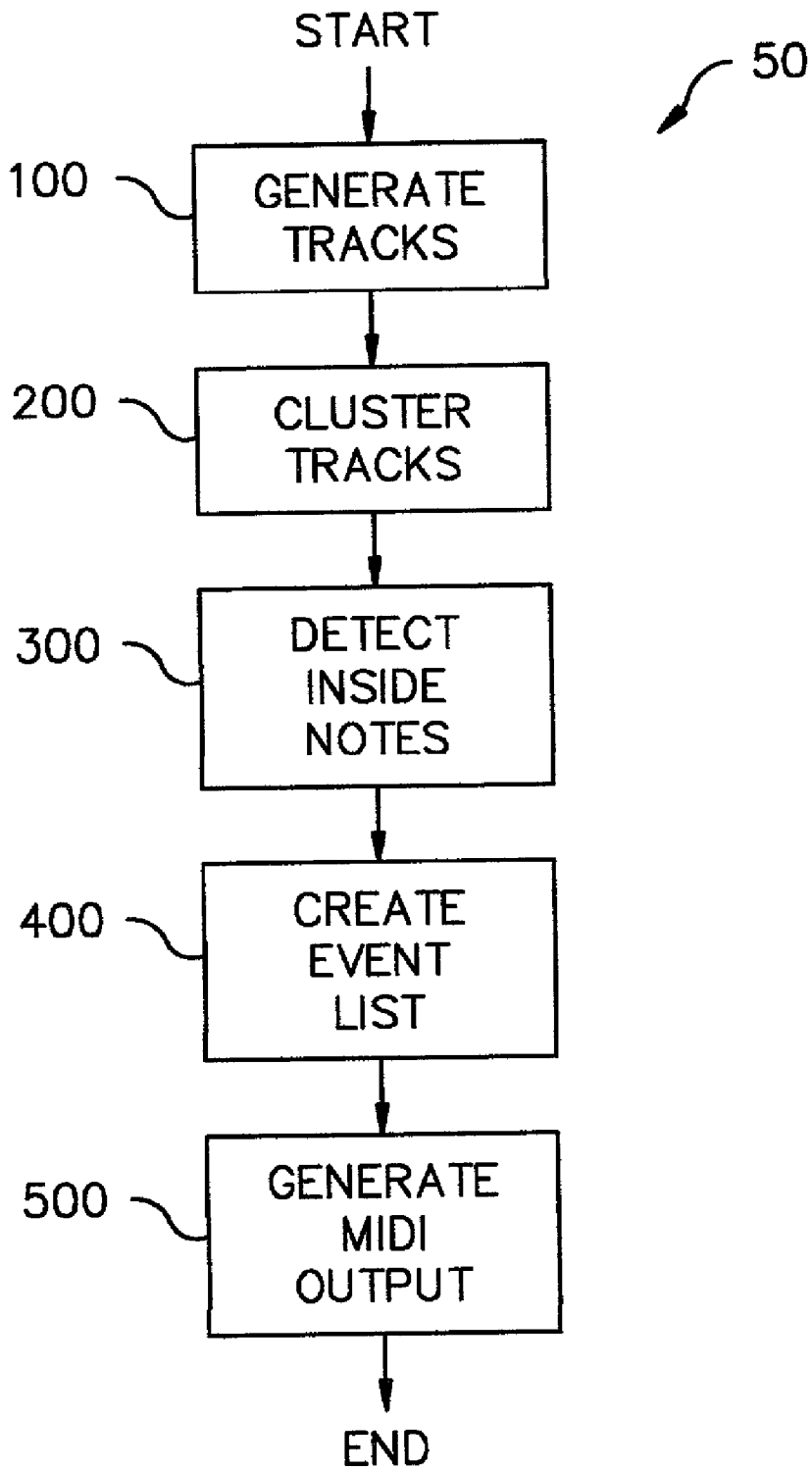
*Fig. 1*



**Fig. 2**

*Fig. 3*





*Fig. 4*

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