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- [54] **AUTOMATED METHOD OF FREQUENCY DETERMINATION IN SOFTWARE METRIC DATA THROUGH THE USE OF THE MULTIPLE SIGNAL CLASSIFICATION (MUSIC) ALGORITHM**

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[52] U.S. Cl. **702/75; 702/76; 702/77; 367/135**

[58] Field of Search **702/74, 75, 76, 702/77; 342/162, 192; 367/135, 136, 124**

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[57] **ABSTRACT**

In accordance with the present invention, a method for obtaining frequency information about a given data set is realized. The method comprises the steps of providing a processing unit; inputting a raw data set into the processing unit; optionally removing at least one trend from the raw data; ordering the raw data; estimating power spectral density using an eigenanalysis approach and the inputted raw data and the ordered raw data; simultaneously estimating the power spectral density using the raw data and a periodogram; generating a time-series representation of the raw data to which curve fitting is applied; comparing the results from the power spectral density estimating steps and the time-series representation generating step to determine if any frequencies suggested by the eigenanalysis approach estimating step are valid; and generating an output signal representative of each valid frequency.

10 Claims, 3 Drawing Sheets

