

ABSTRACT**METHOD AND APPARATUS FOR AUTOMATICALLY RECOGNIZING AUDIO****DATA**

A method and apparatus are proposed for automatically recognizing observed
5 audio data. An observation vector is created of audio features extracted from
the observed audio data and the observed audio data is recognized from the
observation vector. The audio features include features are selected from a
group of 3 types of features obtained from the observed audio data: (i) ICA
features obtained by processing the observed audio data, (ii) first MFCC
10 features obtained by removing a logarithm step from the conventional MFCC
process, or (iii) second MFCC features obtained by applying the ICA process to
results of a mel scale filter bank.

Figure 3

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