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(54) Title: METHOD AND RECOGNIZER FOR RECOGNIZING A SAMPLED SOUND SIGNAL IN NOISE**(57) Abstract**

A sound recognizer uses a feature value normalization process to substantially increase the accuracy of recognizing acoustic signals in noise. The sound recognizer includes a feature vector device (110) which determines a number of feature values for a number of analysis frames, a min/max device (120) which determines a minimum and maximum feature value for each of a number of frequency bands, a normalizer (130) which normalizes each of the feature values with the minimum and maximum feature values resulting in normalized feature vectors, and a comparator (140) which compares the normalized feature vectors with template feature vectors to identify one of the template feature vectors that most resembles the normalized feature vectors.

