Title: SYSTEM AND METHOD FOR UTILIZING INTER-MICROPHONE LEVEL DIFFERENCES FOR SPEECH ENHANCEMENT

Abstract: Systems and methods for utilizing inter-microphone level differences to attenuate noise and enhance speech are provided. In exemplary embodiments, energy estimates of acoustic signals received by a primary microphone and a secondary microphone are determined in order to determine an inter-microphone level difference (ILD). This ILD in combination with a noise estimate based only on a primary microphone acoustic signal allow a filter estimate to be derived. In some embodiments, the derived filter estimate may be smoothed. The filter estimate is then applied to the acoustic signal from the primary microphone to generate a speech estimate.
INTERNATIONAL SEARCH REPORT

A CLASSIFICATION OF SUBJECT MATTER

USPC - 381/31 3

According to International Patent Classification (FPC) or to both national classification and IPC

B FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(8) - H04R 2500 (2007.01)

USPC - 381/313, 094 300, 91-92, 111

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)


C DOCUMENTS CONSIDERED TO BE RELEVANT

Category Citation ordocument, with indication, where applicable date, of the relevant passages Relevant to cdim No

X Y US 2001/0031053 A1 (FENG et al) 18 October 2001 (18 10 2001) entire document 1, 2, 5, 8, 12-17 19, 20

3, 4, 6, 7, 9-11, 18

Y US 6,430,295 B1 (HANDEL et al) 06 August 2002 (06 08 2002) entire document 3, 4, 6, 7, 9-11, 18


I Further documents are listed in the continuation of Bo C

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Date of the actual completion of the international search

20 August 2007

Date of mailing of the international search report

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Name and mailing address of the ISA/US

Mall Stop PCT, Attn ISA/US, Commissioner for Patents
P O Box 1450, Alexandria, Virginia 22313-1450

Facsimile No 571-273-3201

Authorised officer

Blaine R. Copenhagen

PCTHelpdesk 571-272-4300
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