MULTICHANNEL ECHO CANCELLER SYSTEM USING ACTIVE AUDIO MATRIX COEFFICIENTS

An echo canceller system is described, which comprises an audio matrix decoder coupled to audio inputs for providing multiple audio output signals, and a multi-channel echo canceller coupled to the audio inputs. The echo canceller system further comprises audio receiving means for receiving a mixture of the audio output signals and a wanted signal. The multi-channel echo canceller is coupled to the audio matrix decoder for using the audio matrix coefficients with multi-channel echo cancellation for deriving the wanted signal from the mixture. The computational and audio processing complexity of such a system is reduced.
before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(88) Date of publication of the international search report:
22 January 2004
### INTERNATIONAL SEARCH REPORT

#### A. CLASSIFICATION OF SUBJECT MATTER

**IPC 7** H04S1/00

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

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

**IPC 7** H04S

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

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

EPO—Internal, WPI Data, PAJ, INSPEC

#### C. DOCUMENTS CONSIDERED TO BE RELEVANT

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<td>A</td>
<td>US 5 761 318 A (SHIMAUCHI SUEHIRO ET AL) 2 June 1998 (1998-06-02) column 4, line 57 - column 6, line 36 column 21, line 61 - column 25, line 20; figures 7-10</td>
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Further documents are listed in the continuation of box C. Patent family members are listed in annex.

**Date of the actual completion of the International search:**

5 November 2003

**Date of mailing of the international search report:**

13/11/2003

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