Title: A/D CONVERTER WITH INTEGRATED BIASING FOR A MICROPHONE

Abstract: A combination of an electret microphone (1) and a sigma-delta A/D converter (9, 5, 7, 8). The sigma-delta A/D converter has a DC feedback loop (8) which provides the bias current (IDC) for the junction FET (2) of the electret microphone. In this way the signal current from the FET (2) can be injected directly into the input integrator (9) of the sigma-delta A/D converter without the need of signal resistors in series with the FET (2).
**INTERNATIONAL SEARCH REPORT**

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC 7 H04R3/00 H04R19/01

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 H04R H04L

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 practical, search terms used)

WPI Data, PAJ, EPO-Internal, INSPEC

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

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<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
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<td>US 5 978 491 A (PAPADOPoulos COSTAS) 2 November 1999 (1999-11-02) the whole document</td>
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Further documents are listed in the continuation of box C. Patent family members are listed in annex. 

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Date of the actual completion of the international search 21 February 2002

Date of mailing of the international search report 06/03/2002

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<td>US 5978491 A</td>
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