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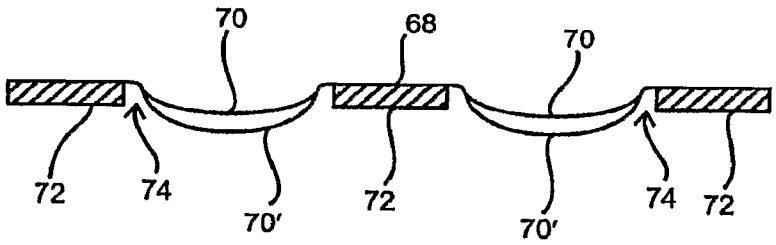
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(54) Title: COMPLIANT ELECTROACTIVE POLYMER TRANSDUCERS FOR SONIC APPLICATIONS



(57) Abstract: Described herein are compliant electroactive polymer transducers for use in acoustic applications. A compliant electroactive polymer transducer includes a compliant electroactive polymer at least two electrodes. For sound production, circuitry in electrical communication with the transducer electrodes is configured to apply a driving signal that causes the electroactive polymer to deflect in the acoustic range.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 07/04602

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - H04R 25/00 (2007.01)
USPC - 381/191
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(8) - H04R 25/00 (2007.01)
USPC - 381/191

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC - 381/116, 173, 174 (text search - see terms below)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PubWest (USPT, PG, PB, EPAB, JPAB); DialogPRO (Engineering); Google Scholar
Search Terms Used: electroactive, polymer, transducer, electrode, and deflect

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2004/0232807 A1 (Pelrine et al.) 25 November 2004 (25.11.2004), para [0018], [0084], [0122], [0028], [0034], [0093], [0136], [0071], [0070], [0144], [0029], [0123], [0055], [0100], [0076]	1-36

☐ Further documents are listed in the continuation of Box C. ☐

* Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier application or patent but published on or after the international filing date
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"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
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