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(54) **Title:** COMPUTER-IMPLEMENTED SYSTEMS AND METHODS EVALUATING PROSODIC FEATURES OF SPEECH

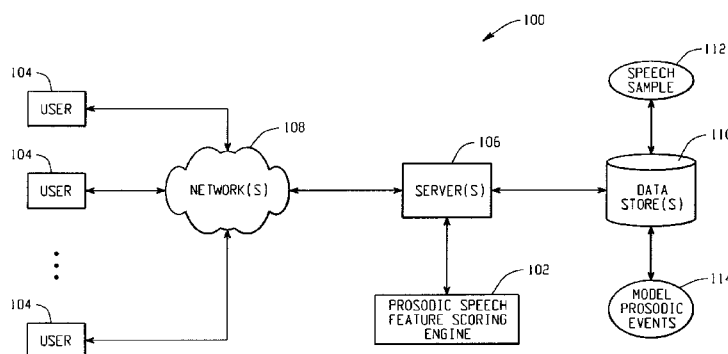


Fig. 1

(57) **Abstract:** Systems and methods are provided for scoring speech. A speech sample is received, where the speech sample is associated with a script. The speech sample is aligned with the script. An event recognition metric of the speech sample is extracted, and locations of prosodic events are detected in the speech sample based on the event recognition metric. The locations of the detected prosodic events are compared with locations of model prosodic events, where the locations of model prosodic events identify expected locations of prosodic events of a fluent, native speaker speaking the script. A prosodic event metric is calculated based on the comparison, and the speech sample is scored using a scoring model based upon the prosodic event metric.



INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - G10L 15/10 (2012.01)

USPC - 704/237

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) - G10L 15/00, 15/04, 15/06, 15/10, 15/14 (2012.01)

USPC - 704/237, 239, 241, 242, 243

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)

PatBase, Google Patents, Google Scholar

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2006/0074655 A1 (BEJAR et al) 06 April 2006 (06.04.2006) entire document	1-23
Y	US 2008/0300874 A1 (GAVALDA et al) 04 December 2008 (04.12.2008) entire document	1-23
Y	US 2006/0178882 A1 (BRAHO et al) 10 August 2006 (10.08.2006) entire document	4, 6, 19
Y	US 2010/0121638 A1 (PINSON et al) 13 May 2010 (13.05.2010) entire document	5
Y	(DONG et al) Chinese Prosodic Phrasing with a Constraint-based Approach. INTERSPEECH 2005 [retrieved on 2012-05-30] Retrieved from the Internet: <http://nlpr-web.ia.ac.cn/2005papers/gjhy/gh87.pdf> entire document	20

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