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(54) **Automatic segmentation in speech synthesis**

(57) In a system having a speech inventory that includes phone labels that are concatenated to form synthetic speech, a method for segmenting the phone labels comprises:

performing an alignment on a trained set of HMMs to produce phone labels that are segmented, wherein each phone label has a spectral boundary; and

performing spectral boundary correction on the phone labels, wherein spectral boundary correction re-aligns each spectral boundary using bending points of spectral transitions,

wherein the phone labels having spectral boundary correction are used for speech synthesis.

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EUROPEAN SEARCH REPORT

Application Number
EP 07 11 6265

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	BRUGNARA F ET AL: "AUTOMATIC SEGMENTATION AND LABELING OF SPEECH BASED ON HIDDEN MARKOV MODELS" SPEECH COMMUNICATION, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 12, no. 4, 1 August 1993 (1993-08-01), pages 357-370, XP000393652 ISSN: 0167-6393 * abstract * * figures 2,3 * * tables 3,9 * * section 1, p. 358, Introduction * * section 2.3, p. 361, Unit HMM training * * section 3, p. 362, System description * * section 4.1, p. 365, TIMIT database: training and test material * * page 368, right-hand column, paragraph 2 * -----	1-19	INV. G10L13/06 G10L15/14
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The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
Munich	17 July 2008	Chétry, Nicolas

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
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EUROPEAN SEARCH REPORT

Application Number
EP 07 11 6265

DOCUMENTS CONSIDERED TO BE RELEVANT

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A	EP 1 035 537 A (FRANK ARMIN ;MATSUSHITA ELECTRIC IND CO LTD (JP)) 13 September 2000 (2000-09-13) * paragraph [0016] - paragraph [0036] * * figures 2,3 * -----	1-19	TECHNICAL FIELDS SEARCHED (IPC)

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