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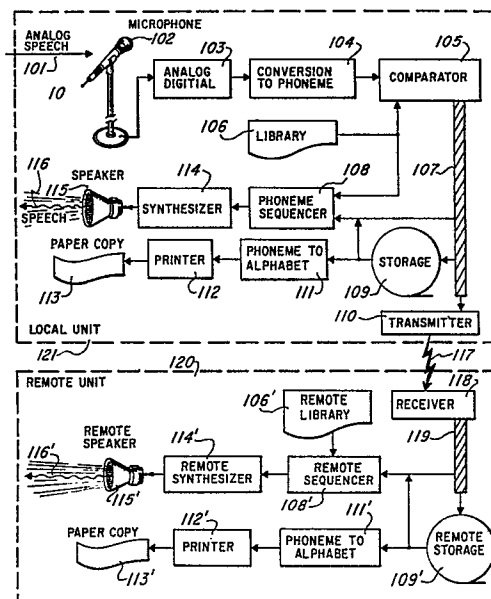
88 Date of deferred publication of search
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54 Allophone vocoder.

57 An analog speech signal is broken up into its phoneme components (105) and encoded for transmission (110).

The phonemes are then either transmitted (110), stored (109), or used to generate directly an analogous allophone sequence (114) so as to approximate the original speech signal.





European Patent
Office

EUROPEAN SEARCH REPORT

0071716
Application number

DOCUMENTS CONSIDERED TO BE RELEVANT			EP 82 10 5168
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. ³)
X	<p>IEEE INTERNATIONAL CONFERENCE ON ACOUSTIC, Speech and Signal Processing, April 10-12, 1978, Tulsa NEW YORK (US)</p> <p>V.N. GUPTA et al.: "Speaker-independent vowel identification in continuous speech", pages 546-548</p> <p>* paragraph "Vowel segmentation and recognition" *</p> <p>--</p>	1,3,4	G 10 L 1/00
X	<p>IEEE TRANSACTIONS ON ACOUSTICS, Speech and Signal Processing, vol.ASSP-24, no.2, April 1976 NEW YORK (US)</p> <p>R.B. THOSAR et al.: "An approach towards a synthesis-based speech recognition system", pages 194-196</p> <p>* paragraph II "Recognition Scheme" *</p> <p>--</p>	1,3,4	<p>TECHNICAL FIELDS SEARCHED (Int. Cl. ³)</p> <p>G 10 L 1/00</p>
X	<p>RADIO FERNSEHEN ELEKTRONIK, vol. 29, no.2, 1980 BERLIN (DE)</p> <p>W. TSCHESCHNER et al.: "Technische Systeme der automatischen Sprachverarbeitung", pages 83-87</p> <p>* paragraph "Funktionskette eines Sprachkommunikationsautomaten" *</p> <p>--</p> <p>./.</p>	1,3,4	
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 15-11-1982	Examiner ARMSPACH
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons</p> <p>& : member of the same patent family, corresponding document</p>			



CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claims:
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

X LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions, namely:

- 1) claims 1-4: Speech recognition system
- 2) claims 5,8: Allophone and phoneme vocoder
- 3) claims 6,7: Formant tracking system

- ☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☒ None of the further search fees has been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims: 1-4



DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl. ³)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
X	THE JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA, vol.42, no.2, August 1967 NEW YORK (US) D.R. REDDY: "Computer Recognition of Connected Speech", pages 329-347 * abstract * --	1,3,4	
X	IBM TECHNICAL DISCLOSURE BULLETIN, vol.22, no.4, September 1979, NEW YORK (US) H.R. GRUB: "Dictation System", pages 1327,1328 * page 1327, lines 20-24 * -----	4	TECHNICAL FIELDS SEARCHED (Int. Cl. ³)