

Title (en)  
MULTIMODE VSELP SPEECH CODER

Title (de)  
MULTIMODALER VSELP SPRACHKODIERER

Title (fr)  
VOCODEUR DE TYPE VSELP

Publication  
**EP 1212750 A1 20020612 (EN)**

Application  
**EP 00960391 A 20000802**

Priority  
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Abstract (en)  
[origin: GB2352949A] A speech coder 200 for a speech communications unit comprises means to analyse an incoming speech unit to determine a particular characteristic of the signal, e.g. pitch. A series of basis vectors is then generated by vector storage block 214 based on the determined characteristic. As described, sets of basis vectors are stored in sub-codebooks. A first sub-codebook models unvoiced speech, a second models voiced speech of pitch periods below a threshold and a third models voiced speech of pitch periods above the threshold. A phase synchroniser 228 is used to synchronise a phase of a present voiced speech signal to previous or perceived future speech signals. The excitation vectors  $u_{SB>i</SB>(n)}$  generated by the codebook generator 220 are processed by long and short term predictors 224,226 to give reconstructed speech vectors  $s'_{SB>i</SB>(n)}$  which are compared with the input speech vectors  $s(n)$ , and the energy of the error signal is used by a codebook controller 240 to determine the code of the vector having the minimum error. This code  $l$  is output together with values of long and short term predictor parameters LTP,STP and excitation gain factor  $q$ .

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