

Title (en)

METHOD AND APPARATUS FOR SPEECH ENHANCEMENT IN A SPEECH COMMUNICATION SYSTEM

Title (de)

VERFAHREN UND VORRICHTUNG ZUR SPRACHVERBESSERUNG IN EINEM SPRACHÜBERTRAGUNGSSYSTEM

Title (fr)

PROCEDE ET APPAREIL D'AMELIORATION DE QUALITE DE SON VOCAL DANS UN SYSTEME DE COMMUNICATION PAR SON VOCAL

Publication

EP 0993670 A1 20000419 (EN)

Application

EP 98932337 A 19980701

Priority

- GB 9801936 W 19980701
- GB 9714001 A 19970702

Abstract (en)

[origin: GB2327835A] The characteristics of the speech received by the decoding unit are altered by a processing unit 10 based upon an analysis of the listener's current background noise before the speech is output to enhance its intelligibility to a listener. An analysis unit 12 determines the type and level of the background noise by use of a microphone 13. A decision unit 11 then determines whether the speech currently being received and replayed would be intelligible to an average listener in the current background noise. If unit 11 determines that the speech is readily intelligible then no processing is necessary and the processing unit 10 does not alter the speech which has been passed to it. However, if unit 11 determines that the speech would be unintelligible, then unit 10 alters the speech before passing it to the output to make the speech more intelligible. In a particularly preferred embodiment, the speech characteristics are altered by altering line spectral pair/formant data representing the speech.

IPC 1-7

G10L 3/02

IPC 8 full level

G10L 21/02 (2013.01); **G10L 21/0208** (2013.01); **G10L 21/013** (2013.01); **G10L 25/15** (2013.01); **G10L 25/24** (2013.01)

CPC (source: EP KR)

G10L 21/003 (2013.01 - KR); **G10L 21/02** (2013.01 - KR); **G10L 21/0208** (2013.01 - EP); **G10L 21/0364** (2013.01 - EP); **G10L 21/02** (2013.01 - EP); **G10L 25/15** (2013.01 - EP); **G10L 25/24** (2013.01 - EP); **G10L 2021/0135** (2013.01 - EP); **H04R 2225/43** (2013.01 - EP)

Cited by

US11265660B2; US8630427B2; EP1808853A1; US11817114B2; WO2021119214A3

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

GB 2327835 A 19990203; **GB 2327835 B 20000419**; **GB 9814279 D0 19980902**; AT E214832 T1 20020415; AU 8227798 A 19990125; CA 2235455 A1 19990102; CN 1265217 A 20000830; DE 69804310 D1 20020425; EP 0993670 A1 20000419; EP 0993670 B1 20020320; GB 9714001 D0 19970910; JP 2002507291 A 20020305; KR 20010014352 A 20010226; PL 337717 A1 20000828; WO 9901863 A1 19990114; ZA 985607 B 20000601

DOCDB simple family (application)

GB 9814279 A 19980701; AT 98932337 T 19980701; AU 8227798 A 19980701; CA 2235455 A 19980421; CN 98807458 A 19980701; DE 69804310 T 19980701; EP 98932337 A 19980701; GB 9714001 A 19970702; GB 9801936 W 19980701; JP 50665899 A 19980701; KR 19997012508 A 19991230; PL 33771798 A 19980701; ZA 985607 A 19980626