

Title (en)
CODING OF ACOUSTIC WAVEFORMS

Publication
EP 0285276 A3 19891123 (EN)

Application
EP 88302063 A 19880310

Priority
US 3409787 A 19870402

Abstract (en)
[origin: EP0285276A2] Encoding techniques and devices based on a sinusoidal speech representation model are disclosed. In one aspect of the invention, a pitch-adaptive channel encoding technique for amplitude coding is disclosed in which the channel spacing is varied in accordance with the pitch of the speaker's voice. In another aspect of the invention, a phase synthesis technique is disclosed which locks rapidly-varying phases into synchrony with the phase of the fundamental. Phase coding techniques which introduce a voice-dependent random phase and a pitch-adaptive quadratic phase dispersion are also disclosed.

IPC 1-7
G10L 7/00

IPC 8 full level
G10L 13/00 (2006.01); **G10L 19/02** (2013.01); **H03M 7/30** (2006.01); **H04B 14/04** (2006.01)

CPC (source: EP)
G10L 19/02 (2013.01)

Citation (search report)

- [XD] WO 8605617 A1 19860925 - MASSACHUSETTS INST TECHNOLOGY [US]
- [X] ICASSP 85 PROCEEDINGS IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING, Tampa, 26th-29th March 1985, vol. 3, pages 945-948, IEEE; R.J. McAULAY et al.: "Mid-rate coding based on a sinusoidal representation of speech"
- [A] ICASSP 85 PROCEEDINGS IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING, Tampa, 26th-29th March 1985, vol. 2, pages 489-492, IEEE; T.E. QUATIERI et al.: "Speech transformations based on a sinusoidal representation"
- [XP] ICASSP 87 PROCEEDINGS IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING, Dallas, 6th-9th April 1987, vol. 3, pages 1645-1648, IEEE; R.J. McAULAY et al.: "Multirate sinusoidal transform coding at rates from 2.4 KBPS to 8 KBPS"

Cited by
EP0780831A3; EP0666557A3; EP0527535A3; US5327521A; EP1008138A4; US5029509A; EP0642129A1; BE1007428A3; US6449592B1; WO0203381A1

Designated contracting state (EPC)
AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)
EP 0285276 A2 19881005; EP 0285276 A3 19891123; EP 0285276 B1 19931013; AT E95936 T1 19931015; AU 1314588 A 19881006; AU 612351 B2 19910711; AU 643769 B2 19931125; AU 7436491 A 19910711; CA 1332982 C 19941108; DE 3884839 D1 19931118; DE 3884839 T2 19940505; JP 2001228898 A 20010824; JP 3191926 B2 20010723; JP H01221800 A 19890905

DOCDB simple family (application)
EP 88302063 A 19880310; AT 88302063 T 19880310; AU 1314588 A 19880316; AU 7436491 A 19910412; CA 560230 A 19880301; DE 3884839 T 19880310; JP 2000393559 A 20001225; JP 7665188 A 19880331