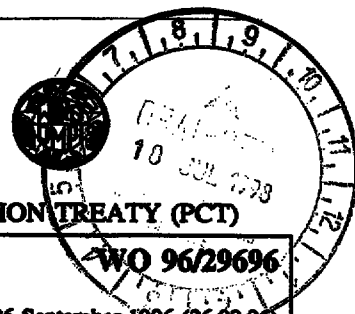
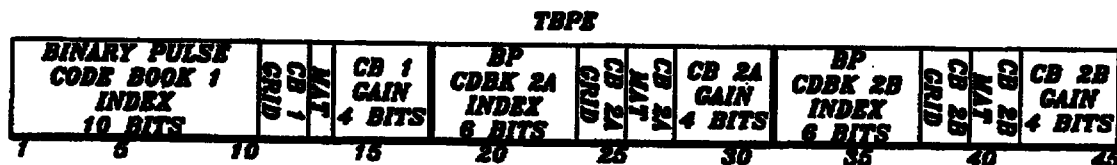


PCTWORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)



(51) International Patent Classification ⁶ : G10L 9/14		A1	(11) International Publication Number: WO 96/29696
		(43) International Publication Date: 26 September 1996 (26.09.96)	
(21) International Application Number: PCT/SE96/00296 (22) International Filing Date: 6 March 1996 (06.03.96) (30) Priority Data: 9501026-0 22 March 1995 (22.03.95) SE (71) Applicant (for all designated States except US): TELEFON-AKTIEBOLAGET LM ERICSSON (publ) [SE/SE]; S-126 25 Stockholm (SE). (72) Inventors; and (75) Inventors/Applicants (for US only): MINDE, Tor, Björn [SE/SE]; Gäddviksvägen 19, S-954 32 Gammelstad (SE). MUSTEL, Peter [SE/SE]; Gymnasievägen 5B, S-973 32 Luleå (SE). (74) Agents: MRAZEK, Werner et al.; Dr Ludwig Brann Patentbyrå AB, P.O. Box 1344, S-751 43 Uppsala (SE).		(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>	

(54) Title: **ANALYSIS-BY-SYNTHESIS LINEAR PREDICTIVE SPEECH CODER**

(57) Abstract

An analysis-by-synthesis linear predictive speech coder is described. This speech coder includes a synthesis part comprising a mixed excitation including a multi-pulse excitation (MPE; 34) and a transformed binary pulse excitation (TBPE; 36).