

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



SG 9701631-5

1

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : G10L 5/06	A1	(11) International Publication Number: WO 96/13827
		(43) International Publication Date: 9 May 1996 (09.05.96)

(21) International Application Number: PCT/GB95/02563
(22) International Filing Date: 1 November 1995 (01.11.95)
(30) Priority Data:
94308023.4 1 November 1994 (01.11.94) EP
(34) Countries for which the regional or international application was filed: GB et al.

(71) Applicant (for all designated States except US): BRITISH TELECOMMUNICATIONS PUBLIC LIMITED COMPANY [GB/GB]; 81 Newgate Street, London EC1A 7AJ (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): RINGLAND, Simon, Patrick, Alexander [GB/GB]; 48 Carlford Close, Martlesham Heath, Ipswich, Suffolk IP5 7TB (GB).

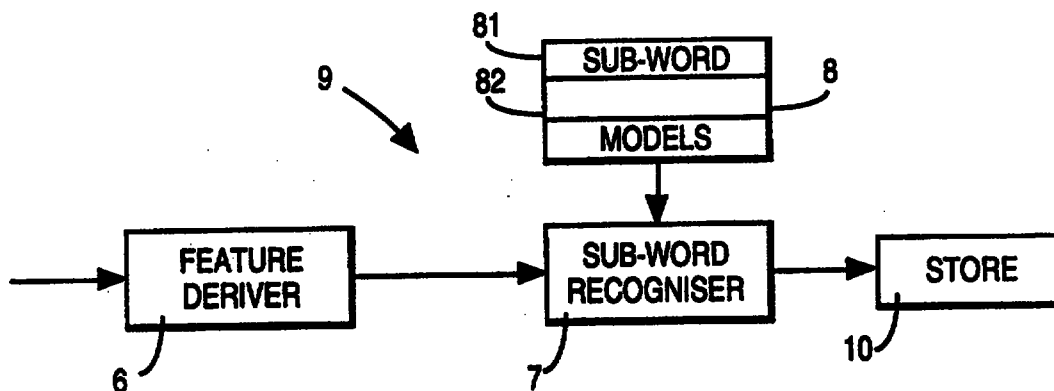
(74) Agent: ROBERTS, Simon, Christopher; BT Group Legal Services, Intellectual Property Dept., 13th floor, 151 Gower Street, London WC1E 6BA (GB).

(81) Designated States: AL, AM, AT, AU, 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, TT, UA, UG, US, UZ, VN, European patent (AT, BE, CH, DE, DK, ES, 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), ARIPO patent (KE, LS, MW, SD, SZ, UG).

Published

With international search report.

(54) Title: SPEECH RECOGNITION



(57) Abstract

A speech recogniser in which the recognition vocabulary is generated from a user's own speech by forming phonemic transcriptions of the user's utterances and using these transcriptions for future recognition purposes. The phonemic transcriptions are generated using a loosely constrained network, preferably one constrained only by noise. The resulting transcriptions therefore bear close resemblance to the user's input speech but require significantly reduced storage requirements compared to known speaker dependent word representations.