



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : A61B 5/12	A1	(11) International Publication Number: WO 98/06330 (43) International Publication Date: 19 February 1998 (19.02.98)
(21) International Application Number: PCT/US96/13130 (22) International Filing Date: 14 August 1996 (14.08.96) (71) Applicant: DECIBEL INSTRUMENTS, INC. [US/US]; 3857 Breakwater Avenue, Hayward, CA 94545 (US). (72) Inventors: SHENNIB, Adnan; 34337 Xanadu Terrace, Fremont, CA 94555 (US). URSO, Richard; 15 Bennet Road, Redwood City, CA 94063 (US). (74) Agent: GLENN, Michael, A.; P.O. Box 7831, Menlo Park, CA 94026 (US).		(81) Designated States: AL, AU, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KP, KR, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, 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>

(54) Title: INTRACANAL PROSTHESIS FOR HEARING EVALUATION

(57) Abstract

A hearing evaluation and hearing aid fitting system (22) provides a fully immersed, three-dimensional acoustic environment to evaluate unaided, simulated aided, and aided hearing function of an individual. Digital filtering of one or more signal sources representing speech or other audio-logically significant stimuli according to selected models and digitally controlled signal processing parameters produce a simulated acoustic condition for presentation to a hearing impaired person for hearing evaluation.

