

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
14 August 2008 (14.08.2008)

PCT

(10) International Publication Number
WO 2008/097201 A1

(51) International Patent Classification:
A61B 5/0476 (2006.01) *G06F 19/00* (2006.01)
A61F 2/72 (2006.01)

for Infocomm Research, 21 Heng Mui Keng Terrace,
Singapore 119613 (SG).

(21) International Application Number:
PCT/SG2008/000048

(74) Agent: **ELLA CHEONG SPRUSON & FERGUSON**
(SINGAPORE) PTE LTD; P.O. Box 1531, Robinson
Road Post Office, Singapore 903031 (SG).

(22) International Filing Date:
11 February 2008 (11.02.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/900,322 9 February 2007 (09.02.2007) US

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(71) Applicant (*for all designated States except US*):
AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH [SG/SG]; 20 Biopolis Way, #07-01, Centros, Singapore 138668 (SG).

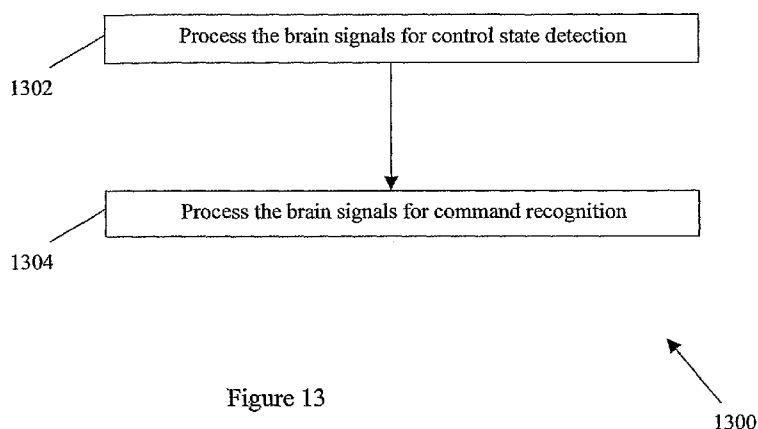
(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **GUAN, Cuntai** [SG/SG]; IPTO, Institute for Infocomm Research, 21 Heng Mui Keng Terrace, Singapore 119613 (SG). **ZHANG, Haihong** [CN/SG]; IPTO, Institute for Infocomm Research, 21 Heng Mui Keng Terrace, Singapore 119613 (SG). **WANG, Chuan Chu** [SG/SG]; IPTO, Institute

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— *with international search report*

(54) Title: A SYSTEM AND METHOD FOR PROCESSING BRAIN SIGNALS IN A BCI SYSTEM



(57) Abstract: A system and method for processing brain signals in a BCI system. The method of processing brain signals in a BCI system comprises the steps of processing the brain signals for control state detection to determine if a subject intends to use the BCI system; and processing the brain signals for command recognition if the control state detection method determines that the subject intends to use the BCI system.

WO 2008/097201 A1