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(21) International Application Number: PCT/US99/02755 (22) International Filing Date: 3 February 1999 (03.02.99) (71) Applicant: PHYSIOME SCIENCES, INC. [US/US]; 307 College Road East, Princeton, NJ 08540 (US). (72) Inventors: WINSLOW, Raimond; 101 Deep Dale Drive, Timonium, MD 21093 (US). ROUNDS, Donna; Apartment No. 11M, 201 East 69th Street, New York, NJ 10021 (US). SCOLLAN, David; 3925 Beech Avenue, Baltimore, MD 21211 (US). (74) Agent: BECK, Robert; Beck & Tysver, Suite 440, 1011 First Street S., Hopkins, MN 55343 (US).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>With amended claims.</i>	
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(54) Title: COMPUTATIONAL SYSTEM AND METHOD FOR MODELING THE HEART			
(57) Abstract			
A computational model for simulating and predicting the electrical and chemical dynamics of the heart. The model consists of a computerized representation of the heart anatomy and a system of mathematical equations that describe the spatio-temporal behavior of biophysical quantities such as voltage at various locations throughout the heart. The computer process can present the temporal evolution of the biophysical quantities throughout the computerized anatomical model.			
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