

(51) International Patent Classification:
A61B 5/00 (2006.01)(21) International Application Number:
PCT/US2015/054900(22) International Filing Date:
9 October 2015 (09.10.2015)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
62/061,970 9 October 2014 (09.10.2014) US
14/877,756 7 October 2015 (07.10.2015) US(71) Applicant: **ASHOK, Reddy** [US/US]; Iqg Llc (dba Iqg-atway), 259 Misty Dawn Drive, The Woodlands, TX 77385 (US).(72) Inventor: **KODURU, Praveen**; 259 Misty Dawn Drive, #a, The Woodlands, TX 77385 (US).(74) Agent: **REDDY, Ashok**; 22485, Castle Oak Road, Clarksburg, MD 20871 (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, BN, BR, BW, BY, BZ, CA, CH, CL, 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, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- of inventorship (Rule 4.17(iv))

Published:

- with international search report (Art. 21(3))

(54) Title: METHOD AND SYSTEM FOR PREDICTING CONTINUOUS CARDIAC OUTPUT (CCO) OF A PATIENT BASED ON PHYSIOLOGICAL DATA

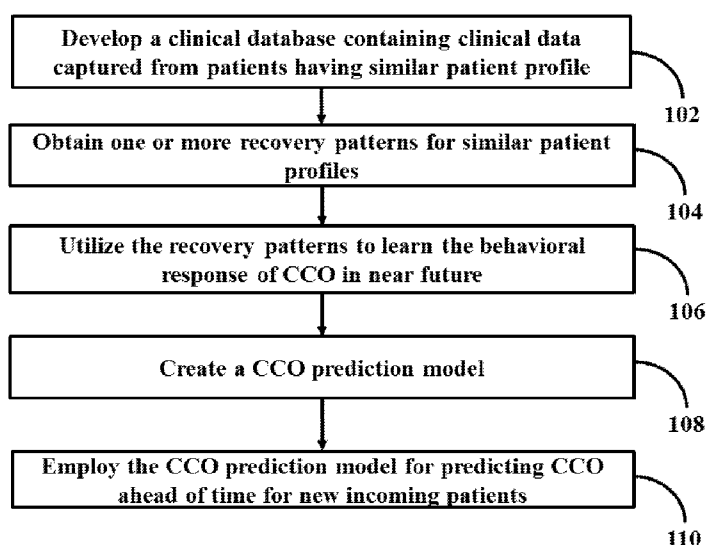


FIG. 1

(57) **Abstract:** The various embodiments of the present invention disclose a method and system for predicting a physiological condition of a patient during post-surgery recovery in Intensive Care Unit (ICU). The physiological condition is the Continuous Cardiac Output (CCO) of a patient ahead of time based on past physiological data. The method comprises of developing a clinical database containing a clinical data captured from a plurality of historical patients having similar patient profiles, the clinical data comprising physiological data, vital signs, demographic details, pretreatment symptoms, and treatments, of historical patients, identifying recovery patterns for the similar patient profiles which exhibits likewise response to a selected treatment regime, utilizing the recovery patterns for learning the behavioral response of a physiological parameter of a patient and creating a prediction model to enable automated classification of similar patient profiles from existing recovery patterns of known symptoms and known responses to at least one treatment regime.