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(71) Applicant: AGENCY FOR SCIENCE, TECHNOLOGY
AND RESEARCH [SG/SG]; 1 Fusionopolis Way, #20-
10, Connexis, Singapore 138632 (SG).

(72) Inventors; and

(71) Applicants : GOEDE, Sam L. [NL/NL]; Oterlekerweg 4,
1841 GP Stompvoren (NL). DIETRICH, Johannes W.
[DE/DE]; Käthe-Kollwitz-Straße 31, Welper, D-45527
Hattingen, NRW, F.R. (DE).

(72) Inventor: LEOW, Khee Shing Melvin; c/o Singapore In-
stitute for Clinical Sciences, Biomedical Sciences Institute,
20 Biopolis Way, #07-01 Centros, Singapore 138668 (SG).

(74) Agent: YUSARN AUDREY; 24 Raffles Place, #27-01
Clifford Centre, Singapore 048621 (SG).

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(54) Title: SYSTEM AND METHOD FOR DERIVING PARAMETERS FOR HOMEOSTATIC FEEDBACK CONTROL OF AN
INDIVIDUAL

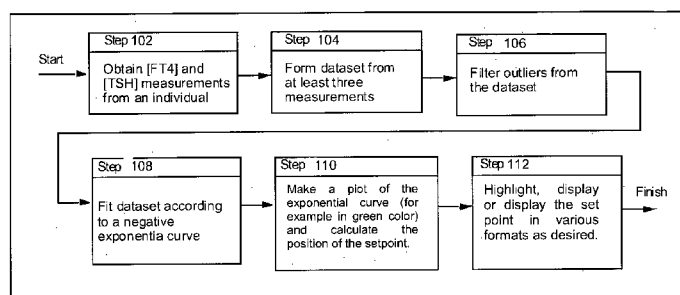


Fig. 1

(57) Abstract: A method and system of deriving a physiological homeostatic operating set point of an individual comprising the steps of: obtaining a dataset of predetermined number of homeostatic measurements of the individual; fitting the dataset of predetermined number of homeostatic measurements according to a negative exponential decay function; identifying and setting the physiological homeostatic operating set point unique to the individual as the point corresponding to the point of maximum curvature on the fitted negative exponential decay function is disclosed. The method is especially suited for determining the [FT4]-[TSH] set point, which is unique for each individual.