(19) World Intellectual Property Organization

International Bureau





(10) International Publication Number WO 2011/037997 A3

(51) International Patent Classification:

G06F 19/00 (2011.01) G06Q 40/00 (2006.01) G06F 17/18 (2006.01) G06F 17/40 (2006.01)

(21) International Application Number:

PCT/US2010/049815

(22) International Filing Date:

22 September 2010 (22.09.2010)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

12/565,080 23 September 2009 (23.09.2009)

US

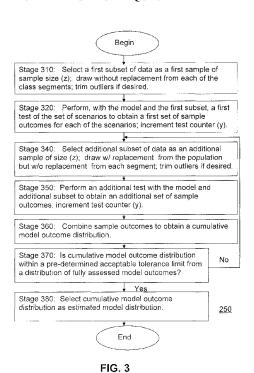
- (71) Applicant (for all designated States except US): WAT-SON WYATT & COMPANY [US/US]; 901 N. Glebe Road, Arlington, Virginia 22203 (US).
- (72) Inventor: and
- (75) Inventor/Applicant (for US only): VADIVELOO, Jeyaraj [US/US]; 36 Kanter Drive, Vernon, Connecticut 06066 (US).
- Agents: ARNER, Erika, H. et al.; Finnegan, Henderson, (74)Farabow, Garrett & Dunner, L.L.P., 901 New York Av-

enue, NW, Washington, District of Columbia 20001-4413 (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, 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, 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, PE, PG, PH, PL, PT, RO, RS, RU, 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, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: METHOD AND SYSTEM FOR EVALUATING INSURANCE LIABILITIES USING STOCHASTIC MODELING AND SAMPLING TECHNIQUES



(57) Abstract: In computer-implemented methods and systems for estimating financial modeling outcomes, financial data segmented into a number (x) of classes and scenario data for a set of model scenarios are processed to obtain an estimated model outcome distribution. The class segments are mutually exclusive and collectively exhaustive of the financial data. Multiple model tests are performed with samples of the financial data until a cumulative model outcome distribution is within a pre-determined acceptable tolerance limit from a distribution of fully assessed model outcomes obtainable by performing a single test of the scenarios using all of the financial data. The number (x) of classes, the sample size (z), and a number (y) of times that the tests are performed ensure that the cumulative model outcome distribution is within the pre-determined acceptable tolerance limit from the distribution of fully assessed model outcomes.

Published:

(88) Date of publication of the international search report: 30 June 2011

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

International application No. PCT/US2010/049815

A. CLASSIFICATION OF SUBJECT MATTER

G06F 19/00(2011.01)i, G06Q 40/00(2006.01)i, G06F 17/18(2006.01)i, G06F 17/40(2006.01)i

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

G06F 19/00; G06F 17/60; G06F 17/30; G06Q 40/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) eKOMPASS(KIPO internal) & Keywords: insurance.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2009-0182678 A1 (BRAUN DAVID et al.) 16 July 2009 See abstract; paragraphs 157-166; figs.2,3; claim 11.	1-30
A	US 2008-0082371 A1 (PHILLIPS PETER) 03 April 2008 See abstract; paragraphs 26-45; fig.2; claim 4.	1-30
A	US 6336096 B1 (JERNBERG; DONALD V.) 01 January 2002 See abstract; column 5,line 14-column 6,line 2; fig.1; claim 39.	1-30
A	US 2002-0055862 A1 (JILL K. JINKS) 09 May 2002 See abstract; paragraphs 16-19; figs.1,2.	1-30
A	US 2007-0038485 A1 (LUKE YERANSIAN et al.) 15 February 2007 See abstract; paragraphs 8-11; fig.1.	1-30

| Sec

See patent family annex.

- * Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed
- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

28 APRIL 2011 (28.04.2011)

Date of mailing of the international search report

29 APRIL 2011 (29.04.2011)

Name and mailing address of the ISA/KR



Korean Intellectual Property Office Government Complex-Dacjeon, 189 Cheongsa-ro, Seo-gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

PARK, Bong Ser

Telephone No. 82-42-481-5585



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2010/049815

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2009-0182678 A1	16.07.2009	WO 2009-017565 A1	05.02.2009
US 2008-0082371 A1	03.04.2008	None	
US 6336096 B1	01.01.2002	None	
US 2002-0055862 A1	09.05.2002	US 2007-0185743 A1	09.08.2007
US 2007-0038485 A1	15.02.2007	None	