



US008103529B1

(12) **United States Patent**
Liebmann et al.

(10) **Patent No.:** **US 8,103,529 B1**
(45) **Date of Patent:** **Jan. 24, 2012**

(54) **GUARANTEED LONG-LIFE BENEFIT CALCULATOR**

(56) **References Cited**

(75) Inventors: **Jean Barbara Liebmann**, Duvall, WA (US); **Kevin W. Rabin**, Issaquah, WA (US); **Edwin Chong**, Mill Creek, WA (US)

(73) Assignee: **Symetra Life Insurance Company**, Bellevue, WA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 435 days.

(21) Appl. No.: **12/363,616**

(22) Filed: **Jan. 30, 2009**

(51) **Int. Cl.**
G06Q 40/00 (2006.01)

(52) **U.S. Cl.** **705/4; 705/36 R**

(58) **Field of Classification Search** None
See application file for complete search history.

U.S. PATENT DOCUMENTS

5,933,815	A *	8/1999	Golden	705/36 R
7,805,352	B2	9/2010	Mercier	
7,840,469	B2	11/2010	Mercier	
7,853,509	B2	12/2010	Mercier	
7,979,337	B2	7/2011	Mercier	
2002/0194098	A1 *	12/2002	Stiff et al.	705/36

* cited by examiner

Primary Examiner — Jason M Borlinghaus

(74) *Attorney, Agent, or Firm* — Christensen O'Connor Johnson Kindness PLLC

(57) **ABSTRACT**

Calculation of rider charges to form a basis for a guaranty to ensure guaranteed long-life benefit (GLLB) payments is made possible by using calculator machinery to analyze interest rates, mortality, expenses, and capital/reserves. These payments are a separate income stream from a pledged asset, which may be withdrawn anytime by a guarantee. Mathematical calculation is provided to reduce the guaranteed long-life benefit (GLLB) payments if not all of the rider charges are paid by the guarantee. For those rider charges that are paid using qualified funds, calculation for required minimum distribution is also possible.

12 Claims, 22 Drawing Sheets

