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**Ghatate**

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(54) **METHOD AND APPARATUS FOR PROVIDING RELATIONSHIP OBJECTS AND VARIOUS FEATURES TO RELATIONSHIP AND OTHER OBJECTS**

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(58) **Field of Search** ..... **707/103, 102, 707/100**

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

5,694,598	*	12/1997	Durand et al.	707/103
5,905,982	*	5/1999	Carey et al.	707/4
5,937,409	*	8/1999	Wetherbee	707/103
5,956,725	*	9/1999	Burroughs et al.	707/101
6,023,578	*	2/2000	Birsan et al.	717/12

**OTHER PUBLICATIONS**

Integration Solutions for the Real-Time Enterprise: EIT-Enterprise Integration Template, Template Software (Table of Contents: 1 pg.; Contents: 3-28; Appendix I: 29-30; Appendix II: 31-32) no date.

Object Technology, A Manager's Guide, Second Edition by David A. Taylor, Ph.D., 2/98 (Contents: v-vii; Acknowledgements: ix-x; Introduction: xi-xii; How to Read the Book: xiii-xvi; Chapter 1-9: 1-158; Appendix: 159-175; Suggested Reading: 177-182; Glossary: 183-198; Index: 199-205.

Upstream, A White Paper, Business Process Engines, A New Category of Server Software, Will Burst the Barriers in Distributed Application Performance by John Rymers, Upstream Consulting (pp.: 1-16; Appendix: 16-19) no date.

ADT Mar. 1997—Viewed as an effective new way to identify core business requirements, business rule thinking for A/D is taking shape, Software Engineering (<http://www.adtmag.com/pub/mar97/softeng>. (15 pgs.).

\* cited by examiner

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(57) **ABSTRACT**

A method and apparatus for providing relationship objects and various features to relationship and other objects. According to one aspect of the invention, a system is described that includes a number of base objects that contain data describing disparate sources of an enterprise. In addition, the system includes a number of relationship objects that express relationships between different ones of the plurality of base objects.

**66 Claims, 14 Drawing Sheets**

