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(54) **OBJECT-ORIENTED FRAMEWORK FOR HYPERLINK NAVIGATION**

FOREIGN PATENT DOCUMENTS

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(*) **Notice:** This patent issued on a continued prosecution application filed under 37 CFR 1.53(d), and is subject to the twenty year patent term provisions of 35 U.S.C. 154(a)(2).

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ABSTRACT

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(58) **Field of Search** **707/501, 513, 707/102, 103, 104; 395/156; 345/738**

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An object-oriented framework comprises system services, objects, and integration interfaces which unify retrieval and browsing of data among multiple different application programs, document formats, and local and remote data storage sites. The framework provides a hyperlink object which encapsulates general hyperlink navigation functions. The hyperlink object has a moniker which references a hyperlink's target, and a location string which designates a location in the target. The hyperlink object uses the moniker to retrieve the target as an object in the framework, and causes the object to display a view of the target at the location. The framework also provides a browse context object which maintains a navigation stack of navigated hyperlink targets, and allows passing of window and navigation tool bar position information to a frame in which the target is displayed to effect the appearance of window reuse when navigating between frames. The framework also includes a cache and table of running objects to speed return navigation to recently navigated targets.

(List continued on next page.)

8 Claims, 13 Drawing Sheets

