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(54) **USING CONTENT AGGREGATION TO BUILD ADMINISTRATION CONSOLES**

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(58) **Field of Classification Search** 715/744, 715/765, 736, 738; 709/218, 222, 224
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

6,219,700	B1	4/2001	Chang et al.	
6,621,505	B1 *	9/2003	Beauchamp et al.	715/764
6,970,869	B1	11/2005	Slaughter et al.	
7,028,264	B2 *	4/2006	Santoro et al.	715/765
7,072,807	B2	7/2006	Brown et al.	
7,203,909	B1	4/2007	Horvitz et al.	
2001/0034771	A1	10/2001	Hütsch et al.	
2002/0054152	A1 *	5/2002	Palaniappan et al.	345/810
2002/0116454	A1	8/2002	Dyla et al.	
2002/0120607	A1	8/2002	Price	
2002/0129136	A1	9/2002	Matharu	

(Continued)

OTHER PUBLICATIONS

Tony, Hansen; On BRM Framework; Oct. 15, 2003.*

(Continued)

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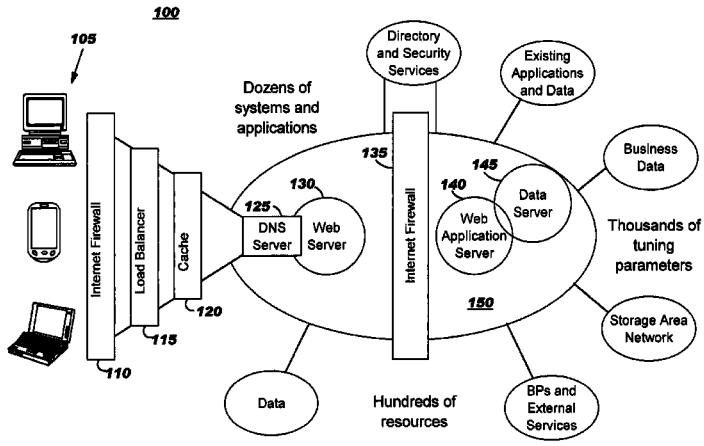
(57) **ABSTRACT**

Content aggregation is used to build administration consoles. Preferred embodiments enable providing a solution-based approach to information technology ("IT") administration, whereby content can be flexibly arranged to provide a content view that is adapted for the IT solution deployed in a particular IT environment. In preferred embodiments, portal technology is used for the aggregation framework, and portlets are used for creating content. Alternatively, other approaches such as struts and tiles may be used. Preferred embodiments deploy an administration console as a Web-accessible application, and this console consolidates the administration interfaces for an arbitrary set of management operations, including administration of an arbitrary collection of hardware and/or software resources. Roles/permissions may be used when rendering content for the console, thereby customizing a view to individual end users (or user groups).

3 Claims, 37 Drawing Sheets