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[54] SYSTEM FOR CONSTRUCTING AND LOADING A TABLE DATA STRUCTURE BASED ON AN ASSOCIATED CONFIGURATION DATA

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[*] Notice: The portion of the term of this patent subsequent to Jul. 18, 2112 has been disclaimed.

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[51] **Int. Cl.**[6] **G06F 15/40**

[52] **U.S. Cl.** **395/200.01**; 395/500; 395/600; 395/700; 364/DIG. 1; 364/238.6; 364/239; 364/239.3; 364/260.4; 364/282.1

[58] **Field of Search** 364/200, 900; 395/157, 395/425, 600, 50, 500, 200, 700

[56] **References Cited**

U.S. PATENT DOCUMENTS

4,468,732	8/1984	Raver	364/200
4,485,439	11/1984	Rothstein	364/200
4,649,515	3/1987	Thompson et al.	364/900
4,774,661	9/1988	Kumpati	364/300
4,800,523	1/1989	Gerety et al.	364/900
4,802,115	1/1989	Ginn	364/900
4,868,785	9/1989	Jordan et al.	364/900
4,953,080	8/1990	Dysart et al.	364/200
5,008,853	4/1991	Bly et al.	364/900
5,055,998	10/1991	Wright et al.	395/800
5,121,478	6/1992	Rao	395/157
5,130,924	7/1992	Barker et al.	364/419.1
5,142,674	8/1992	Barker et al.	395/600
5,157,777	10/1992	Lai et al.	395/425
5,168,565	12/1992	Morita	395/600
5,182,793	1/1993	Alexander et al.	395/13
5,195,172	3/1993	Elad et al.	395/50
5,222,160	6/1993	Sakai et al.	382/57
5,255,356	10/1993	Michelman et al.	395/148
5,276,870	1/1994	Shan et al.	395/600

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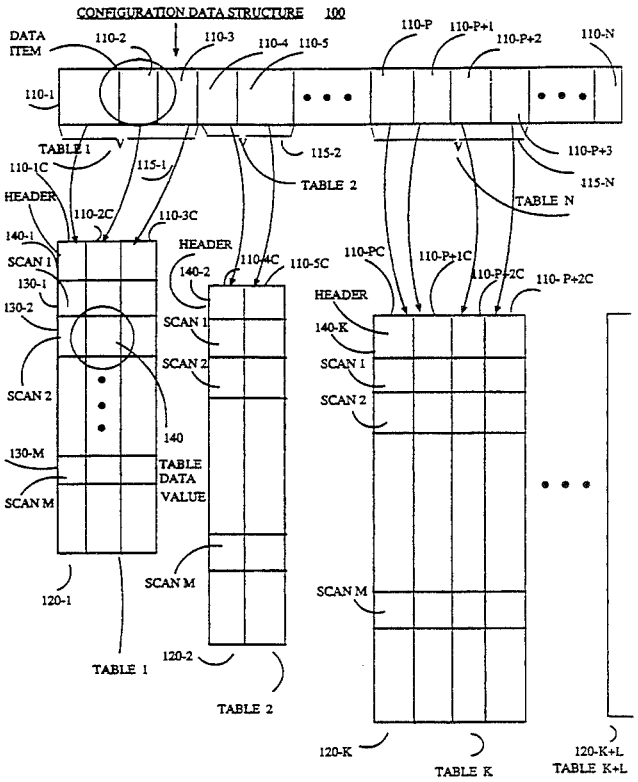
[57] **ABSTRACT**

An apparatus for storing and retrieving data acts as an interface between modules such as data collection devices and data analysis tools. The apparatus provides the capability of maintaining a data standard so the number of translation tools needed to transfer data from one module to another is reduced. The apparatus maintains the data standard by means for storing a configuration data structure having table data structures. The configuration data structure and the table data structure define a data model. The data model is editable. Complex, as well as simple, items may be stored in the table data structure.

16 Claims, 32 Drawing Sheets