



(54) **SOFTWARE TEST CASE CLIENT/SERVER SYSTEM AND METHOD**

(75) Inventors: **Benjamin P. Akin; Matthew G. Michels**, both of Fort Collins, CO (US)

(73) Assignee: **LSI Logic Corporation**, Milpitas, CA (US)

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(56) **References Cited**

**U.S. PATENT DOCUMENTS**

4,887,204	12/1989	Johnson et al.	364/200
5,295,222	* 3/1994	Wadhwa et al.	395/1
5,371,883	* 12/1994	Gross et al.	395/575
5,542,043	7/1996	Cohen et al.	395/183.08
5,619,710	4/1997	Travis, Jr. et al.	395/800
5,640,510	* 6/1997	Hanaoka et al.	395/183.18
5,659,547	* 8/1997	Scarr et al.	395/182.02
5,671,351	9/1997	Wild et al.	395/183.14
5,708,774	1/1998	Boden et al.	395/183.14
5,734,898	3/1998	Qianshan He	395/619
5,754,760	* 5/1998	Warfield	395/183.14
5,761,665	* 6/1998	Gardner et al.	707/100
5,896,494	* 4/1999	Perugini et al.	395/183.03
5,991,897	* 11/1999	Perugini et al.	714/27
6,002,868	* 12/1999	Jenkins et al.	395/701

**OTHER PUBLICATIONS**

Gossain et al., Class state testing method in object oriented program, Derwent, Pub. No. US 5974255, 1-2, Oct. 1999.\*  
IBM Technical disclosure Bulletin, Testcase Automation method, IBM Tech Bulletin, vol. 36, issue 8, 127-130, Aug. 1993.\*

\* cited by examiner

*Primary Examiner*—Nadeem Iqbal

(57) **ABSTRACT**

A software test case client/server system provides selective access to a central repository of test case data used in testing a software program. A test case server stores and manages test case data in a central repository. A test client communicates between a test program and the test server to identify tests case data, and versions of such data, with desired read/write status required in testing a software program. A test program automates selection of test case data, software program test execution, and verification of software program results. In an exemplary embodiment, symbolic links and copies of test case data are recorded in a destination directory structure accessible by a software program under test. In an alternate embodiment, a revision control system (RCS) is used to access the central repository and provide copies of selected test case data in a destination directory structure accessible by a software program under test. A method for communicating and implementing the desired test case access includes instructions initiated by a test client and received by a test server. A central repository administration application allows a user to organize, supplement and otherwise manage test case data and versions of such data. The client/server configuration further facilitates access by a plurality of users to a shared central repository of test case data without corrupting the test case data therein.

**25 Claims, 6 Drawing Sheets**

