IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re PATENT APPLICATION of

FARBER et al.

Appln. No. 09/283,160

Filed: April 1, 1999

Group Art Unit: 2177

Examiner: Homere, Jean R.

EXPEDITED EXAMINATION

For: IDENTIFYING AND REQUESTING DATA IN NETWORK USING IDENTIFIERS WHICH ARE BASED ON CONTENTS OF DATA (As Amended)

* * * * *

August 22, 2001

RESPONSE

Hon. Commissioner of Patents
  and Trademarks
Washington, D.C. 20231

Sir:

Please amend this application as follows:

IN THE CLAIMS:

Please amend the claims as follows (the claim amendments are shown in detail in the attached appendix):

1

54. (Amended) In a system in which a set of data files are distributed across a network of servers, at least some of the data files being cached versions of data files from a source server, wherein the source server is distinct from the servers in the network, a content delivery method comprising:

determining a data identifier for a particular data file on the source server, the data identifier being determined using a given function of the data, wherein said data used by the

given function to determine the data identifier comprises the contents of the particular data file; and

responsive to a request for the particular data file, the request including at least the data identifier of the particular data file, providing the particular data file from a given one of the servers of the network of servers, said providing being based on the data identifier of the requested data item.

55. (Amended) In a system in which a set of data files are distributed across a network of servers, some of the data files being cached from a source server distinct from the servers in the network, a content delivery method comprising:

determining a data identifier for a particular data file on the source server, the data identifier being determined using a given function of the data, wherein said data used by the given function to determine the data identifier comprises the contents of the particular data file; and

responsive to a request for the particular data file, the request including at least the data identifier of the particular data file, causing a copy of the particular data file to be provided from a given one of the servers of the network of servers.

56. (Amended) A content delivery method, comprising:

distributing a set of data files across a network of servers;

determining a data identifier for a particular data file, the data identifier being determined using a given function of the data, wherein said data used by the given function to determine the data identifier comprises the contents of the particular data file; and

in response to a request for the particular data file, the request including at least the data identifier of the particular data file, providing the particular data file from a given one of the servers of the network of servers, said providing being based on the data identifier of the particular data file.

57. (Amended) A method as in claim 56 further comprising:

determining whether the data identifier corresponds to a data identifier of any data file present on the given server.

12 58. (Amended) A method as in claim 57 further comprising:

based on said determining, if the data identifier does not correspond to a data file present on the given server, locating the particular data file from another server.

13 59. (Amended) A method as in claim 58 further comprising:

obtaining, on the given server, a local copy of the particular data file, from the other server.

14 60. (Amended) A method as in claim 56 wherein at least some of the data files distributed across the network of servers are cached versions of data files from another server, distinct from the network of servers.

15 61. (Amended) A method as in claim 56 further comprising:

resolving the request for the particular data file based on a measure of availability of at least one of the servers.

16 62. (Amended) A method as in claim 61 wherein the measure of availability is based on one or more of:

(a) a measurement of bandwidth to the server;

(b) a measurement of a cost of a connection to the server, and

(c) a measurement of a reliability of a connection to the server.

63. (Amended) A method as in claim 56 wherein the data file is a compound data file made up of various component data files, the method further comprising:

for each component data file of at least some of the component data files:

(a) determining a data identifier for the component data file, the data identifier for the component file determined using the given function of the data, wherein said data used by the given function to determine the data identifier comprises the contents of the component data file; and

(b) providing the component data file from a given one of the servers of the network of servers.

18

64. (Amended) A content delivery method, comprising:

distributing a set of data files across a network of servers;

for a particular data file having a particular name specifying a location in the network at which the data file may be located, determining another name for the particular data file, the other name including a data identifier determined using a given function of the data, where said data used by the given function comprises the contents of the particular data file; and

in response to a request for the particular data file, the request including the other name of the particular data file, providing the particular data file from a given one of the servers of the network of servers.

19   18

65. (Amended) A method as in claim 64 wherein at least some of the data files are cached versions of data files from another server which is distinct from the network of servers.

20   18

66. (Amended) A method as in claim 64 further comprising:

resolving the request for the particular data file based on a measure of availability of at least one of the servers.

21   20

67. (Amended) A method as in claim 66 wherein the measure of availability is based on one or more of:

(a) a measurement of bandwidth to the server;

(b) a measurement of a cost of a connection to the server, and

(c) a measurement of a reliability of a connection to the server.

22   18

68. (Amended) A method as in claim 64 wherein the particular data file is a compound data file comprising various component data files, the method further comprising:

for at least one component data file:

(a) determining a data identifier for the component data file, the data identifier determined using a given function of the data, wherein said data used by the given function comprises the contents of the component data file; and

(b) providing the component data file from a given one of the servers of the network of servers.

23

69. (Amended) A content delivery method, comprising:

distributing a set of data files across a network of servers, at least some of the data files being cached versions of data files from another server, distinct from the network of servers;

determining a data identifier for a particular data file, the data identifier determined using a given function of the data, wherein said data used by the given function comprises the contents of the particular data file; and

in response to a request for the particular data file, the request including at least the data identifier of the particular data file, providing the particular data file from a given one of the servers of the network of servers.

24

70. (Amended) A content delivery method, comprising:

causing a set of data files to be distributed across a network of servers, at least some of the data files being cached versions of data files from another server distinct from the network of servers;

determining a data identifier for a particular data file, the data identifier determined using a given function of the data, wherein said data used by the given function comprises the contents of the particular data file; and

in response to a request for the particular data file, the request including at least the data identifier of the particular data file, causing the particular data file to be provided from a given one of the servers of the network of servers.

25

71. (Amended) A content delivery method, comprising:

distributing a set of data files across a network of servers, the network of servers being organized into a set of regions;

determining a data identifier for a particular data file, the data identifier determined using a given function of the data, wherein said data used by the given function comprises the contents of the data file;

in response to a client request for the particular data file, the request including at least the data identifier of the particular data file, providing the client with the particular data file from a given one of the servers of the network of servers within the region.

72. (Amended) A method as in claim 54 wherein the given function is a message digest function or a hash function.

DOCKET ALARM

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts

Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research

With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips

Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS
Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS
Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS
Sync your system to PACER to automate legal marketing.