IN THE	UNITED STATES PATENT AND TRADEMARK OFFICE	
	Date: 7/3/97	
Applicant: Serial No.: Filed: For: Docket No.: Box Patent Applicatio Commissioner of Pate Washington, D.C. 202	Thomas Yohe et al. 08/ APPARATUS AND METHOD FOR INCREASED DATA ACCESS IN A NETWORK FILE ORIENTED CACHING SYSTEM S-00014-003 on ents and Trademarks	
 X Drawings:_sh X Declaration ar _ unexecuted A claim for pr with respect to filed A application is a later. X A claim for pr with respect to U filed <u>11/30/95</u>. _ Statement by it X Enclosed here which is calculate _ Preliminary at X Information D X The same 	abstract and claims, pages total. hete(s), x_ formal, informal hd Power of Attorney X_ executed higher of Attorney X_	
ownership of		MICROS EXHIBIT

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 \underline{x} An assignment of the invention to \underline{x} is attached

_ will follow; enclosed herewith is a check in the amount of <u>40.00</u>

_____ A terminal disclaimer is filed herewith and fee \$55.00

CLAIMS AS FILED

Number filed	Number Extra	Rate	Basic Fee 37 CFR 1.16(a)
		•	\$770.00
Total <u>Claims (37 CFR</u>	1.16(c)) -20=	X.\$ 22.00 -	
Independent			
Claims (37 CFR	<u>1.16(b)) - 3=</u>	<u>X \$ 80.00</u> -	0.00
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Filing Fee Calcul	ation		
Large Entity	7	70.00	
Small Entity	() x .5	
		Respectfu	illy submitted,
			illiam Graham No. <u>33,891</u>

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

 Applicant:
 Thomas Patrick Yohe et al.

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 APPARATUS AND METHOD FOR INCREASED DATAACCESS IN A NETWORK FILE ORIENTED CACHING SYSTEM

 Docket No.:
 S-00014-003

COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

EXPRESS MAIL CERTIFICATE

"Express Mail" label number Em 110421439Date of Deposit 7/3/97

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I hereby certify that the following attached: transmittal letter <u>X</u>____ new application X continuation ____ divisional continuation-in-part X declaration and power of attorney <u>x</u> amendment _ preliminary amendment information disclosure statement Х response ____ notice of appeal _ X assignment petition for extension _ notification of continuation affidavit ____ verified statement of small entity X filing fees terminal disclaimer and fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and s addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231 R. William Graham Reg. No. 33,891

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Abstract of the Disclosure

An apparatus for increased data access in a network includes a file server computer having a permanent storage memory, a cache verifying computer operably connected to the file server computer in a manner to form a network for rapidly transferring data, the cache verifying computer having an operating system, a first memory and a processor with means for performing an operation on data stored in the permanent storage memory of the file server computer to produce a signature of the data characteristic of one of a file and directory, a remote client computer having an operating system, a first memory, a cache memory and a processor with means for performing an operation on data stored in the cache memory to produce a signature of the data, a communication server operably connected to the remote client computer to the cache verifying computer and the file server computer and comparators operably associated with the cache verifying computer and remote client computer for comparing the signatures of data with one another to determine whether the signature of data of the remote client is valid.

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APPARATUS AND METHOD FOR INCREASED DATA ACCESS IN A NETWORK FILE

ORIENTED CACHING SYSTEM

This is a continuation-in-part of U.S. Serial No. 08/565,393 filed 11/30/95.

Field of the Invention

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OFFERENCE STREET

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ΟСΚΕ

The present invention relates to data access in a file oriented network system. More particularly, the present invention is directed to a client-agent-server utility which increases the speed in which data in the form of files and directories are accessed across slow link communications via remote node caching and verifying.

Related Art

Many operating systems are equipped to handle caching and verifying of data. Traditionally, in a remote client's caching system, optimization in retrieving data is limited to prefetching. In other words, an application program in a remote client requests from a file server transmission of a predetermined number of bytes of information (e.g., x bytes) and the operating system on the client prefetches the requested data plus another number of bytes of information (e.g., x + y bytes). Thus, when the application requests the bytes, it already exists in its readily accessible memory (cache).

In addition, there also exist problems with verification of directories in existing systems. It has been found, for example, that two remote clients concurrently accessing data and attempting to verify a directory will not necessarily obtain the same data due to the fact that the data from the file server computer will not necessarily send out the data in the same order to each of the remote clients. Thus, there is no clear indication whether the directory data is current.

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