



2142

**PATENT**  
**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: *Leonid Goldstein*  
Serial No.: 09/398,007  
Filed: September 16, 1999  
For: System and Method for Data Access  
Attorney Docket: 0021973-0003

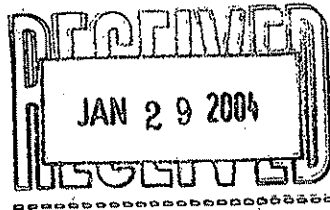
Examiner: Hai Nguyen  
Art Unit: 2142

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Sir:

In reply to the notice of allowance dated December 12, 2003, Applicant hereby submits a certified copy of the priority document, Israeli patent application No. 126,292 filed September 18, 1998.

January 21, 2003

Respectfully submitted

*David Chan*

David Chan, (51,540)  
Attorney for Applicants



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משרד המשפטים  
לשכת הפטנטים

This is to certify that annexed hereto is a true copy of the documents as originally deposited with the patent application of which particulars are specified on the first page of the annex.

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בזה העתקים נכונים של  
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This 13-01-2004 היום

רשם הפטנטים

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בקשה לפטנט  
Application for Patent

מספר: Number	126292
תאריך Date	18-09-1998
הוקדם.הדחה Ante/Post-dated	

(אני, (שם המבקש, מענו — ולגבי גוף מאוגד — מקום התאגדותו)

I (Name and address of applicant, and, in case of a body corporate, place of incorporation)

LEONID GOLDSTEIN  
an Israeli citizen  
15 Rabenu Tam Street  
Herzlia, ISRAEL.

לאוניד גולדשטיין  
אזרח ישראלי  
רח' רבינו תם 15  
הרצליה.

ששמה הוא \_\_\_\_\_ הדין בעל אמצאה מכח \_\_\_\_\_  
Owner, by virtue of \_\_\_\_\_ of an invention, the title of which is:

מערכת ושיטת גישה לנתונים

(Hebrew)

SYSTEM AND METHOD FOR DATA ACCESS

(באנגלית)  
English

Hereby apply for a patent to be granted to me in respect thereof.

מבקש בזאת כי ינתן לי עליה פטנט.

בקשת חלוקה - Application for Division	בקשת פטנט מוסף - Application for Patent of Addition	ידרישת דין קדימה Priority Claim		
מבקשת פטנט from Application No. _____ מס' _____ Date _____ מיום _____	לבקשה/לפטנט to Patent/Appl. No. _____ מס' _____ Date _____ מיום _____	מספר/סימן Number/Mark	תאריך Date	מדינת האיגוד Convention Country
ייפוי כח: כללי - עוד יוגש P. O. A.: general/specific - to follow				
המען למסירת הודעות ומסמכים בישראל Address for Service in Israel  WOLFF, BREGMAN AND GOLLER P. O. Box 1352 Jerusalem, Israel, 91013				
חתימת המבקש Signature of Applicant  WOLFF, BREGMAN AND GOLLER by: _____		1998	שנת 9	בחודש 17 היום 1998
		This	of	1998
		לשימוש הלשכה For Office Use		

SYSTEM AND METHOD FOR DATA ACCESS

מערכת ושיטת גישה לנתונים

## Field of the Invention

The present invention relates to data access in networks. Specifically, the invention is concerned with a method, system and apparatus for increasing the speed of data accessing in communication networks.

## Background of the Invention

Many known applications and protocols provide means for caching and verifying of data transmitted via a network 2 (Fig. 1, prior art). Thus, a client (receiver) 4 caches data received from network 2 in cache 6. Then, when data from a remote server (sender) 8 is requested, it first searches its local cache. If the requested data is available in the cache and is verified to be valid, the client uses it, and transmission over the network is not required. Gateway or proxy caches 10 (Fig. 2, prior art) are able to operate in a similar manner.

The most well-known techniques are as follows:

- 1) In response to a request from a receiver, a sender attaches to the sent data an expiration time in absolute or relative form. The receiver, and possibly proxies, cache the data together with its request until the expiration time. Then the data is retrieved from the cache. In some cases, the receiver guesses the expiration time.

The problem associated with this technique is that the data entity can be changed before the expiration time, and the receiver would use an obsolete version of the data without even knowing it. Also, when the time has expired, the data will be resent, even if it is up to date.

- 2) In response to a request from a receiver, the sender attaches a validator to the sent data. The validator changes at least every time the data changes; in many

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