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(71) Applicant (for all designated States except US): **MICROSOFT CORPORATION** [US/US]; One Microsoft Way, Redmond, WA 98052-6399 (US).

(72) Inventors: **RUIA, Anil K.**; One Microsoft Way, Redmond, WA 98052-6399 (US). **OLSON, Erik B.**; One Microsoft Way, Redmond, WA 98052-6399 (US). **VOLODARSKY, Michael**; One Microsoft Way, Redmond, WA 98052-6399 (US).

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**Declarations under Rule 4.17:**

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

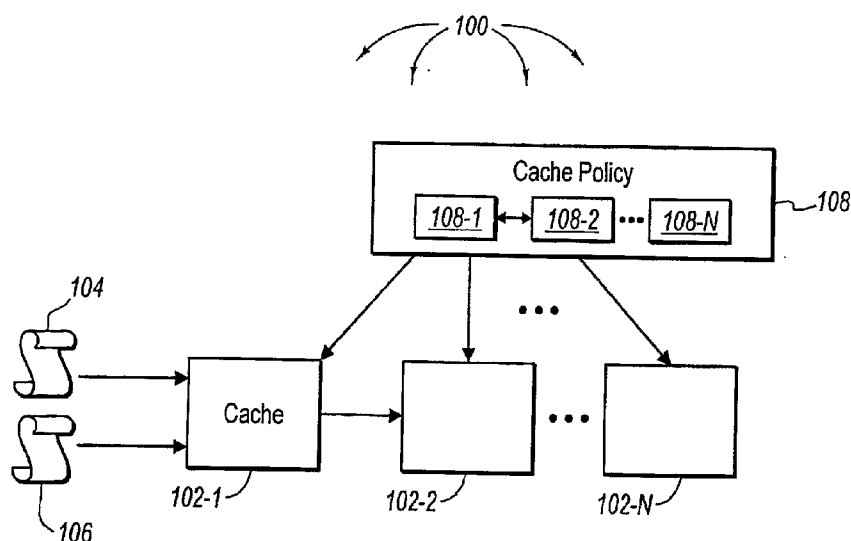
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(54) Title: MULTI-CACHE COOPERATION FOR RESPONSE OUTPUT CACHING



(57) Abstract: Caching data. A method may be practiced, for example, in a computing environment including a server system that provides data to client systems. The server system includes a number of caches for storing data. The method allows a least expensive cache to first cache data or return data requested by a client. The method includes receiving data to be cached at a cache. The method further includes determining that the data has not been previously cached at a preceding cache. If the data has not been previously cached at a preceding cache the data is cached at the cache. Alternatively, requests for data may be received at a first cache. If the data is at the first cache, the first cache returns the data. If the data is not at the first cache, the request for data is forwarded to a subsequent cache.

**A. CLASSIFICATION OF SUBJECT MATTER*****G06F 12/08(2006.01)i, G06F 15/16(2006.01)i, G06F 17/30(2006.01)i***

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 8 : G06F12/08, G06F 15/16, G06F17/30

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Utility Models and applications for Utility Model since 1975, IPC as above

Japanese Utility Models and applications for Utility Model since 1975, IPC as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKIPASS(KIPO internal) "cache", "policy", "exclusive"

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6430654 B1 (MEHROTRA, SHARAD et al.) 06 August 2002 See abstract, line 27 col.12 - line 35 col.13	12-14, 16-20
A	US 6851024 B1 (WILKES, JOHN et al.) 01 February 2005 See abstract, line 29 col.2 - line 3 col.3	1-20
A	US 6425058 B1 (ARIMILLI, RAVI KUMAR et al.) 23 July 2002 See abstract, line 7 col.5 - line 49 col.6	1-20
A	US 5758119 A (MAYFIELD, MICHAEL JOHN et al.) 26 May 1998 See abstract, claims	1-20



Further documents are listed in the continuation of Box C.



See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

10 JULY 2007 (10.07.2007)

Date of mailing of the international search report

**10 JULY 2007 (10.07.2007)**

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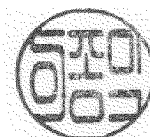
Korean Intellectual Property Office  
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Republic of Korea

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Authorized officer

LEE, Jong Ick

Telephone No. 82-42-481-8373



**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

**PCT/US2007/003345**Patent document  
cited in search reportPublication  
datePatent family  
member(s)Publication  
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US 6430654 B1

06.08.2002

NONE

US 6851024 B1

01.02.2005

NONE

US 6425058 B1

23.07.2002

US 6430656 B1

06.08.2002

US 5758119 A

26.05.1998

NONE