



Docket No. 3802-4066US2
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

UTILITY APPLICATION AND FEE TRANSMITTAL §(1.53(B))

Mail Stop New Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Transmitted herewith for filing is the patent application of

Inventor(s) names and addresses:

- (1) Edward Balassanian
Kirkland, WA

☐ Additional inventors are listed on a separate sheet

For: APPLICATION SERVER

Enclosed Are:

- 13 page(s) of specification
1 page(s) of Abstract
1 page(s) of claims
3 sheets of ☒ Formal ☐ Informal drawings
3 page(s) of Declaration and Power of Attorney

- ☐ Unsigned
☐ Newly Executed
☒ Copy from prior application
☐ Deletion of inventors including Signed Statement under 37 C.F.R. §1.63(d)(2)

☐ **REQUEST AND CERTIFICATION UNDER 35 U.S.C. §122(b)(2)(B)(i) (form PTO/SB/35)**

As indicated on the attached Request and Certification, Applicant(s) certify that the invention disclosed in the attached application HAS NOT and WILL NOT be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing. Applicant(s) therefore request(s) that the attached application NOT be published under 35 U.S.C. §122(b).

☒ **Incorporation by Reference:**

- ☒ The entire disclosure of the prior application, from which a copy of the combined Declaration and Power of Attorney is supplied herein, is considered as being part of the disclosure of the accompanying application and is incorporated herein by reference.

☐ **Deletion of Inventors (37 C.F.R. §1.63(d) and §1.33(b))**

Signed statement attached deleting inventor(s) named in the prior application serial no. _____, filed _____.

- ☐ Microfiche Computer Program (Appendix)
- ☐ page(s) of Sequence Listing
 - ☐ computer readable disk containing Sequence Listing
 - ☐ Statement under 37 C.F.R. §1.821(f) that computer and paper copies of the Sequence Listing are the same
- ☒ Assignment Papers (assignment cover sheet and assignment documents)
- ☐ A check in the amount of \$40.00 for recording the Assignment
 - ☐ Charge the Assignment Recordation Fee to Deposit Account No. 13-4503, Order No. _____.
 - ☒ Assignment Papers filed in the parent application Serial No. 09/040,972, now Patent No. 6,324,685.
- ☐ Certification of chain of title pursuant to 37 C.F.R. §3.73(b)
- ☐ Priority is claimed under 35 U.S.C. §119 for:
- ☐ Certified Copy of Priority Documents
 - ☐ filed herewith
 - ☐ filed in application Serial No. _____, filed _____.
 - ☐ English translation document(s) [_____]
 - ☐ filed herewith
 - ☐ filed in application Serial No. _____, filed _____.
- ☐ Priority is claimed under 35 U.S.C. §119(e) for:
Provisional Application No. _____, filed _____.
- ☒ Information Disclosure Statement
- ☐ Copy of [_____] cited references
 - ☒ PTO Form-1449 A and 1449 B
 - ☒ References cited in parent application Serial No. 09/040,972, filed March 18, 1998 and Serial No. 09/968,704, filed October 1, 2001.
- ☐ Related Case Statement under 37 C.F.R. §1.98(a)(2)(iii)
- ☐ A copy of related pending U.S. Application(s) Serial No(s): _____, filed _____, respectively, is attached hereto.
 - ☐ A copy of related pending U.S. Application(s) entitled, _____, filed _____ to inventor(s) _____, respectively, is attached hereto.
 - ☐ A copy of each related application(s) was submitted in parent application serial no. _____, filed _____.
- ☐ Preliminary Amendment
- ☒ Return receipt postcard (MPEP 503)
- ☒ This is a ☒ continuation ☐ divisional ☐ continuation-in-part of prior application serial no. 09/968,704, filed October 1, 2001, which is a continuation of prior application serial no. 09/040,972, filed March 18, 1998, to which priority under 35 U.S.C. §120 is claimed.
- ☐ Cancel in this application original claims _____ of the parent application before calculating the filing fee. (At least one original independent claim must be retained for filing purposes.)
 - ☐ A Preliminary Amendment is enclosed. (Claims added by this Amendment have been properly numbered consecutively beginning with the number following the highest numbered original claim in the prior application).

13281 U.S. PTO

100405

- ☒ The status of the parent application is as follows:
- ☐ A Petition for Extension of Time and a Fee therefor has been or is being filed in the parent application to extend the term for action in the parent application until ____.
- ☐ A copy of the Petition for Extension of Time in the co-pending parent application is attached.
- ☒ No Petition for Extension of Time and Fee therefor are necessary in the co-pending parent application.
- ☐ Please abandon the parent application at a time while the parent application is pending or at a time when the petition for extension of time in that application is granted and while this application is pending has been granted a filing date, so as to make this application co-pending.
- ☐ Transfer the drawing(s) from the parent application to this application

I. CALCULATION OF APPLICATION FEE				
Basic Fee (\$300/\$150)				\$ 150.00
Examination Fee (\$200/\$100)				\$ 100.00
Search Fee (\$500/\$250)				\$ 250.00
	Number Filed	Number Extra	Rate	
Total Claims	1 - 20 =	0 x	(\$50/\$25)	\$
Independent Claims	1 - 3 =	0 x	(\$200/\$100)	\$
☐ Multiple Dependent Claims		If marked, add fee of \$360/\$180		\$
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee	
- 100 =	/ 50 =	(round up to the whole number)	(\$250/\$125)	\$
TOTAL:				\$ 500.00

- ☒ Small entity status is or has been claimed. Reduced fees under 37 C.F.R. §1.9 (f) paid herewith \$500.00.
- ☐ A check in the amount of \$ 00.00 in payment of the application filing fees is attached.
- ☒ Charge fee to Deposit Account No. 13-4500, Order No. 3802-4066US2. A DUPLICATE COPY OF THIS SHEET IS ATTACHED.
- ☒ The Commissioner is hereby authorized to charge any additional fees which may be required for filing this application pursuant to 37 CFR §1.16, including all extension of time fees pursuant to 37 C.F.R. § 1.17 for maintaining copendency with the parent application, or credit any overpayment to Deposit Account No. 13-4500, Order No. 3802-4066US2.

Respectfully submitted,
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Dated: 10/4/05

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Respectfully submitted,
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This is a continuation of prior application Serial Number 09/968,704, filed on October 1, 2001, now allowed, which is a continuation of prior application Serial Number 09/040,972, filed on March 18, 1998, now Patent No. 6,324,685, which is hereby incorporated by reference.

5

APPLICATION SERVER FILED OF THE INVENTION

The present invention relates to computer operating system and, in particular, to a server architecture providing application caching and security verification.

10

BACKGROUND OF THE INVENTION

The growth of the Internet's importance to business, along with the increased dependence upon corporate networks, has created a demand for more secure and efficient computer systems. The traditional solution to this problem has been to depend upon improvements in hardware performance to make up for the performance penalty that is typically incurred when a computer system is made more secure and stable. Increased interconnectivity has also created a need for improved interoperability amongst a variety of computers that are now connected to one another. One solution to the problem of the variety of computers interconnected via the Internet and corporate networks has been the development of portable architecture neutral programming languages. The most widely known of these is Java, though, there are numerous other architecture neutral languages.

Architecture neutral programming languages allow programs downloaded from a server computer to a client computer to be interpreted and executed locally. This is possible because the compiler generates partially compiled intermediate byte-code, rather than fully compiled native machine code. In order to run a program, the client machine uses an interpreter to execute the compiled byte-code. The byte-codes provide an architecture neutral object file format, which allows the

25

code to be transported to multiple platforms. This allows the program to be run on any system which implements the appropriate interpreter and run-time system. Collectively, the interpreter and runtime system implement a virtual machine. This structure results in a very secure language.

5 The security of this system is premised on the ability of the byte-code to be verified independently by the client computer. Using Java or some other virtual machine implementing technology, a client can ensure that the downloaded program will not crash the user's computer or perform operations for which it does not have permission.

10 The traditional implementations of architecture neutral languages are not without problems. While providing tremendous cross platform support, the current implementations of architecture neutral languages require that every client performs its own verification and interpretation of the intermediate code. The high computation and memory requirements of a verifier, compiler and interpreter restrict
15 the applicability of these technologies to powerful client computers.

Another problem with performing the verification process on the client computer is that any individual within an organization may disable some or all of the checks performed on downloaded code. The current structure of these systems makes security management at the enterprise level almost impossible. Since
20 upgrades of security checking software must be made on every client computer, the cost and time involved in doing such upgrades makes it likely that outdated or corrupt copies of the verifier or interpreter exist within an organization. Even when an organization is diligent in maintaining a client based security model, the size of the undertaking in a large organization increases the likelihood that there will be
25 problems.

There is a need for a scalable distributed system architecture that provides a mechanism for client computers to request and execute applets in a safe manner without requiring the client machines to have local resources to compile or verify the code. There is a further need for a system in which the applets may be cached in
5 either an intermediate architecture neutral form or machine specific form in order to increase overall system performance and efficiency.

SUMMARY OF THE INVENTION

In accordance with one embodiment of the invention, an applet server
10 architecture is taught which allows client computers to request and execute applets in a safe manner without requiring the client to have local resources to verify or compile the applet code. Compilation and byte-code verification in the present invention are server based and thereby provide more efficient use of resources and a flexible mechanism for instituting enterprise-wide security policies. The server
15 architecture also provides a cache for applets, allowing clients to receive applet code without having to access nodes outside the local network. The cache also provides a mechanism for avoiding repeated verification and compilation of previously requested applet code since any client requesting a given applet will have the request satisfied by a single cache entry.

20 Machine specific binary code is essentially interpreted code since the processor for a given computer can essentially be viewed as a form of an interpreter, interpreting binary code into the associated electronic equivalents. The present invention adds a level of indirection in the form of an intermediate language that is processor independent. The intermediate language serves as the basis for security
25 verification, code optimizations, or any other compile time modifications that might be

necessary. The intermediate form allows a single version of the source to be stored for many target platforms instead of having a different binary for each potential target computer. Compilations to the target form can either be done at the time of a cache hit or they can be avoided all together if the target machine is able to directly

5 interpret the intermediate form. If the compilation is done on the server, then a copy of the of the compiled code as well as the intermediate form can be stored in the cache. The performance advantage derived from caching the compiled form as well as the intermediate depends upon the number of clients with the same CPU.

The novel features believed characteristic of the invention are set forth in the
10 appended claims. The invention itself, however, as well as other features and advantages thereof will best be understood by reference to the detailed description which follows, when read in conjunction with the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

15 FIG. 1 is diagram showing the major components which may be used to implement an applet server in one embodiment of the present invention;

FIG. 2a is a table which illustrates the structure of the request format data type;

FIG. 2b is a table which illustrates the structure of the returned code data
20 type.

FIG. 3 is a diagram showing the compilation and transformation of a program module into an applet in a particular form.

DETAILED DESCRIPTION OF THE INVENTION

Referring to FIG. 1, an applet server architecture according to one embodiment of the invention is based on an applet server computer 10 which in turn is connected to client computer A 12, client computer B 14, an external network 16 and an untrusted network 18. The applet server computer 10 connects to client computers 12 and 14, an external network 16, and an untrusted network 18 by means of a network interface 20. Typically this connection will involve one or more of the computers or networks having a connection to the Internet.

The applet server computer 10 accomplishes its objectives by manipulating computer programs in several formats. An applet (e.g. applets 1-3, 25a-25c) is any form of program instructions, whether in binary, source or intermediate format. In the case of this architecture, the applet code can either be a self contained program, or it can be a code fragment associated with a larger application.

Binary format refers to processor specific machine instructions suitable for running natively on a given computing platform (also referred to as "target" because of the concept of "targeting" a compiler to produce binary code for a given processor type).

Source refers to non-binary applet code, generally in the form of higher level languages (i.e. C, C++, Java, Visual Basic, ActiveX, Fortran, and Modula).

Intermediate format refers to a common intermediate byte-code that is produced by compiling a given source code input. The intermediate byte-code need not necessarily be Java byte-code.

Treating applets in this general sense allows client computers 12 and 14 to request not only applications, but portions of applications. Client computers 12 and 14 are thus able to use applet server computer 10 as the equivalent of a loader,

loading in appropriate parts of the application in the form of applets. In turn client computers 12 and 14 can run large applications without requiring that the client computers 12 and 14 have the resources to store the entire application in memory at once.

5 Having the applets delivered from applet server computer 10 allows code in intermediate form to be verified, optimized, and compiled before being transmitted to client computers 12 and 14. This reduces the amount of work the client computers 12 and 14 have to do and provides a convenient way to impose global restrictions on code.

10 In operation, client computer A 12 transmits a request to an applet server computer 10 requesting an applet in a particular form. The form may be selected from a large matrix of many possible forms that can be recognized by the system. The request specifies the format (source, intermediate, or binary) in which the client wishes to receive the applet. The request may also specify that the applet be
15 verified or have some other transformation operation preformed upon it. Verification, optimization and compression are examples of types of transformation operations. The request is received by the network interface 20 of the applet server computer 10 which passes the request onto the applet server manager 22.

 After interpreting the request, the applet server manager 22 checks to see if
20 the requested applet is available in the cache 24. The cache 24 stores applets in a variety of formats (source, intermediate, or binary). If the requested form of the applet is available in the cache 24 (applet 1 25a, applet 2 25b, or applet 3 25c in this example) the applet server manager 22 instructs the network interface 20 to transmit the applet to requesting client computer A 12.

If the requested applet is not available in the cache 24, then the applet server manager 22 will attempt to build the requested applet from local resources 26 and one or more transformation operations performed by one or more of the transformers 28. Local resources 26 are comprised of compilers 30a, 30b and 30c and program
5 code modules 32a, 32b, 32c and 32d. The requested applet is built by selecting one or more program code modules 32 and compiling them with one or more compilers 30. Transformer operations may be performed by the verifier 34 or the optimizer 36. After the applet server manager 22 builds the applet, the network interface 20 transmits the applet to the requesting client computer A 12.

10 If the request can not be satisfied by building the applet from local resources 26 and transformers 28, the applet server manager 22 will pass a request for the requested applet to external network 16 and/or untrusted network 18. The applet server manager 22 may request the applet in intermediate form or in executable form or it may request the local resources 26 and transformers 28 it needs to complete
15 building the applet itself.

The cache 24 is capable of responding to the following commands : GET, PUT, and FLUSH. GET is used to retrieve a given applet from the cache. PUT is used to store an applet in the cache. FLUSH is used to clear the cache of one or more entries. When the cache is unable to locate an item in response to a GET
20 operation, it returns a cache miss. The program which issued the GET command is then responsible for locating the desired form of the applet by other means and optionally storing it in the cache when it is retrieved (using the PUT operation). The FLUSH command will clear the cache of one or more entries and any subsequent GETs for the FLUSHed applet code will result in a cache miss. This is useful if a
25 particular applet needs to be updated from a remote server on a periodic basis.

When using PUT, the program issuing the command specifies a time to live (TTL) in the cache. When the TTL expires, the cache entry is removed by means of a FLUSH operation.

Local resources 26 are comprised of program modules 32 (applets in source form, not the requested form) and compilers 30. The program modules 32 are run through the compilers 30 in order to produce applets in the requested form. The applet server manager 20 may also direct the modules 32 to be processed by a verifier 34 or another transformer such as an optimizer 36. Program modules 32 are program code used to build applets. Program modules 32 may be stored in local resources 26 in source, binary, or intermediate formats. When an applet is built it may require the operation of one or more compilers 30 upon one or more program modules 32. The program modules 32 may be combined and recompiled with previously cached applets and the resulting applet may be also cached for use at a future time. Additionally, program modules 32, compilers 30 and transformers 28 (including verifiers 34 and optimizers 36) may be distributed across a network. The applet server manager 22 may pass requests for the components it needs to build a particular applet back to the network interface 20 which in turn passes the request onto the rest of the network and may include external network 16 and untrusted network 18.

FIG. 3 provides further illustration of how an applet is produced from local resources and transformers. In this illustration the request is for an optimized and verified applet compiled to a machine specific form. A program module 40 is compiled into an intermediate form program module 44 by an intermediate compiler 42. The intermediate form program module 44 is then transformed by an optimizer

46 or a verifier 48. The resulting transformed intermediate form program module 50 is then compiled by target compiler 52 into machine specific code applet 54.

There are two types of compilers used to build applets: intermediate compilers 42 and target compilers 52. The intermediate compiler 42 compiles program modules (source applet code) 40 and produces a common intermediate pseudo-binary representation of the source applet code (intermediate form program module 44). The word pseudo is used because the intermediate form 44 is not processor specific but is still a binary representation of the source program module 40. This intermediate form can be re-targeted and compiled for a particular processor.

Alternatively, the intermediate form 44 can be interpreted by an interpreter or virtual machine that understands the internal binary representation of the intermediate form. A target compiler 52 compiles intermediate applet code 44 into an applet 54 in a processor specific format (binary) suitable for running natively on a given computing platform.

Transformers 56 are programs that take in intermediate code and put out intermediate code. Transformers 56 are generally used for things like verification and optimization. Other transformers might include compressors that identify portions of code that can be replaced with smaller equivalents. Transformers can be matched up to any other component that takes in intermediate code as an input.

These include the cache 24 and the target compilers 52. Global policies for transformers 56 can be implemented which ensure that all applets are run through some set of transformers before being returned to the client.

A verifier 48 is a type of transformer that is able to analyze input code and determine areas that might not be safe. The verifier 48 can determine the level of safety. Some verifiers 48 look for areas where unsafe or protected memory is being

accessed, others might look for accesses to system resources such as IO devices. Once a verifier 48 determines the portion of unsafe applet code several steps can be taken. The offending code portion can be encased with new code that specifically prevents this unsafe code section from being executed. The unsafe code can be
5 modified to be safe. The unsafe code can be flagged in such a way that a user can be warned about the possible risks of executing the code fragment. The verifier's role can therefore be summarized as determining where unsafe code exists and possibly altering the offending code to render it harmless. Verifiers 48 can operate on any format of input code, whether in source, intermediate or binary form.
10 However, since intermediate code is a common format, it is most efficient to have a single verifier that will operate on code in this format. This eliminates the need to build specific knowledge of various source languages into the verifier. Verifiers 48 are a form of a transformer. Verifiers 48 take in intermediate code and put out verified intermediate code. Verifiers 48 are responsible for identifying non-secure
15 portions of code in the intermediate code and modifying this code to make it secure. Security problems generally include access to memory areas that are unsafe (such as system memory, or memory outside the application space of the applet).

The choice of adding in the verification step can be left up to the client computer 12, the applet server computer 10 (see FIG. 1), or can be based on the
20 network that the applet originated from. Server managers can institute global policies that affect all clients by forcing all applets to be run through the verifier 48. Alternatively, verification can be reserved for un-trusted networks (18 in FIG 1), or it can be left up to the client to determine whether the verification should be performed. In the preferred embodiment, verification level is determined by the applet server 10.

In this way, a uniform security policy may be implemented from a single machine (i.e., the applet server 10).

Optimizers 46 are another type of transformer program. Optimizers 46 analyze code, making improvements to well known code fragments by substituting in
5 optimized but equivalent code fragments. Optimizers 46 take in intermediate code 44 and put out transformed intermediate code 50. The transformed intermediate code 50 is functionally equivalent to the source intermediate code 44 in that they share the same structure.

Referring again to FIG. 1, policies may be instituted on the applet server 10
10 that force a certain set of request parameters regardless of what the client asked for. For example, the applet server manager 22 can run the applet through a verifier 34 or optimizer 36 regardless of whether the client 12 requested this or not. Since the server 10 might have to go to an untrusted network 18 to retrieve a given applet, it will then run this applet through the required transformers 28, particularly the verifier
15 34 before returning it to the client 12. Since clients 12 and 14 have to go through the applet server computer 10, this ensures that clients 12 and 14 do not receive applets directly from an untrusted network 18. In addition, since the server will be dealing directly with untrusted network 18, it can be set up to institute policies based on the network. A trusted external network 16 may be treated differently than an untrusted
20 network 18. This will provide the ability to run a verifier 34 only when dealing with an untrusted network 18, but not when dealing with a trusted external network 16. In one embodiment, all intermediate code is passed through a verifier 34 and the source of the code merely determines the level of verification applied.

The client 12 is the target computer on which the user wishes to execute an
25 applet. The client 12 requests applets from the server 10 in a specific form. Applets

can be requested in various formats including source, intermediate and binary. In addition, an applet can be requested with verification and/or other compile time operations. Optionally, the client 12 can pass a verifier to the server to provide verification. If the server 10 implements its own security, then both the client and
5 server verifiers will be run. The verifier that is passed from the client to the server is cached at the server for subsequent verification. The client can refer to this verifier by a server-generated handle to avoid having to pass the verifier each time an applet is requested.

Client computers 12 and 14 requesting applet code in intermediate format
10 need to have an interpreter or virtual machine capable of interpreting the binary code in the intermediate format if the applet is to be executed on the client machine.

In the preferred embodiment, requests to the applet server are in a format similar to those of an HTTP header and are comprised of tags and values. In one embodiment, an HTTP GET method is used to make the request (though use of the
15 HTTP protocol is not necessary to implement the present invention). The request is made up of a series of tags which specify the requested applet, the platform on which it is to be run and the type of code (source/intermediate/binary), a verification level and an optimization level. New tags and values can be added to extend functionality as needed and the applet server manager 22 will discard any tag it does
20 not recognize. When the applet server computer 10 returns the requested applet to the requesting client computer A 12, it will transmit the request header followed by the applet code. In this instance, the header will additionally include a field which defines the length of the applet code. FIG. 2 provides a table which illustrates the request format and the returned code format.

While this invention has been described with reference to specific embodiments, this description is not meant to limit the scope of the invention. Various modifications of the disclosed embodiments, as well as other embodiments of the invention, will be apparent to persons skilled in the art upon reference to this
5 description. It is therefore contemplated that the appended claims will cover any such modifications or embodiments as fall within the scope of the invention.

I claim:

1. A method operating on a computer system for managing requests to a server computer for applets in a client server environment wherein each request for an applet specifies one form of the applet out of a plurality forms of the applet, comprising:

- a) receiving on said server computer a request from a client computer for an applet in a form selected from a plurality forms;
- b) compiling said applet into said selected form from a local resource comprising at least one source module and one compiler which acts on said source module to produce said selected form; and
- c) transmitting said applet in said selected form to said client computer.

ABSTRACT OF THE INVENTION

The present invention is an applet server which accepts requests for applets from client computers. A request specifies the format in which an applet is to be delivered to the requesting client computer. The applet server has a cache which it
5 uses to store applets for distribution to client computers. If the specified form of the requested applet is available in the cache, the applet server transmits the applet to the requesting client. If the applet is not available in the cache, the server will attempt to build the applet from local resources (program code modules and compilers) and transformer programs (verifiers and optimizers). If the applet server
10 is able to build the requested applet, it will then transmit the applet to the requesting client computer. If the applet server is unable to build the requested applet, it will pass the request to another applet server on the network for fulfillment of the request.

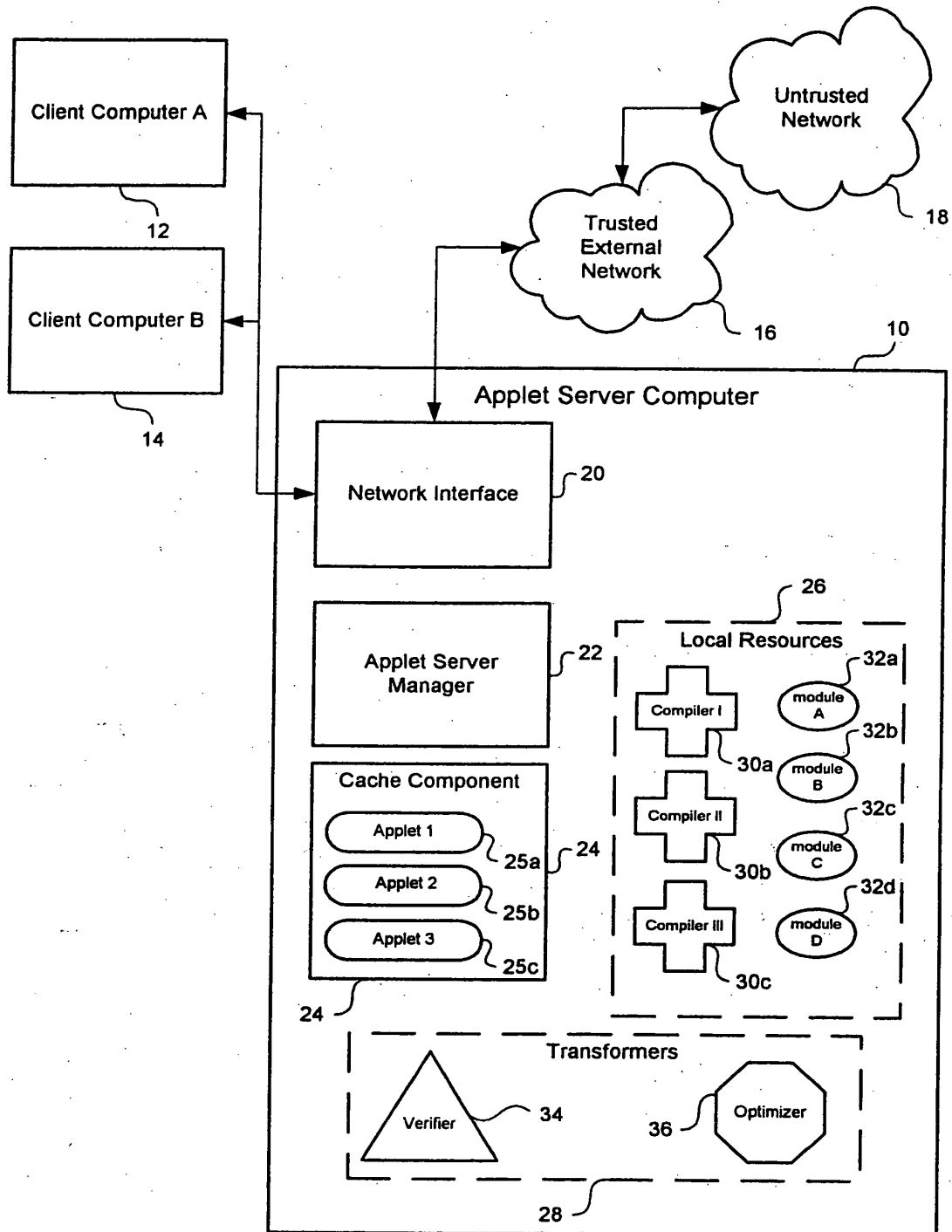


Fig. 1

Request Data Type

Tag	Value
Applet-URL	(String) specifies the name of the requested applet
Code-Type	(Source/Intermediate/Binary) specifies the format the applet is to be delivered to the requesting client in. A request for binary would specify the CPU of the requesting client (e.g., x86)
Verification-Level	(0-100) specifies the degree of verification to be performed. 0 = no/minimal verification, 100 = maximum verification (highest level of security).
Optimization-Level	(0-100) specifies the degree of optimization to be performed. 0 = no/minimal optimization, 100 = maximum optimization.

Fig. 2A**Code Data Type**

Tag	Value
Applet-URL	(String) specifies the name of the requested applet
Code-Type	(Source/Intermediate/Binary) specifies the format the applet is to be delivered to the requesting client in. A request for binary would specify the CPU of the requesting client (e.g., x86)
Verification-Level	(0-100) specifies the degree of verification to be performed. 0 = no/minimal verification, 100 = maximum verification (highest level of security).
Optimization-Level	(0-100) specifies the degree of optimization to be performed. 0 = no/minimal optimization, 100 = maximum optimization.
Applet Length	(0-2 ³²) specifies the size of the requested applet.
Applet Code	The Requested Applet in the form specified by the request data type.

Fig. 2B

BEST AVAILABLE COPY

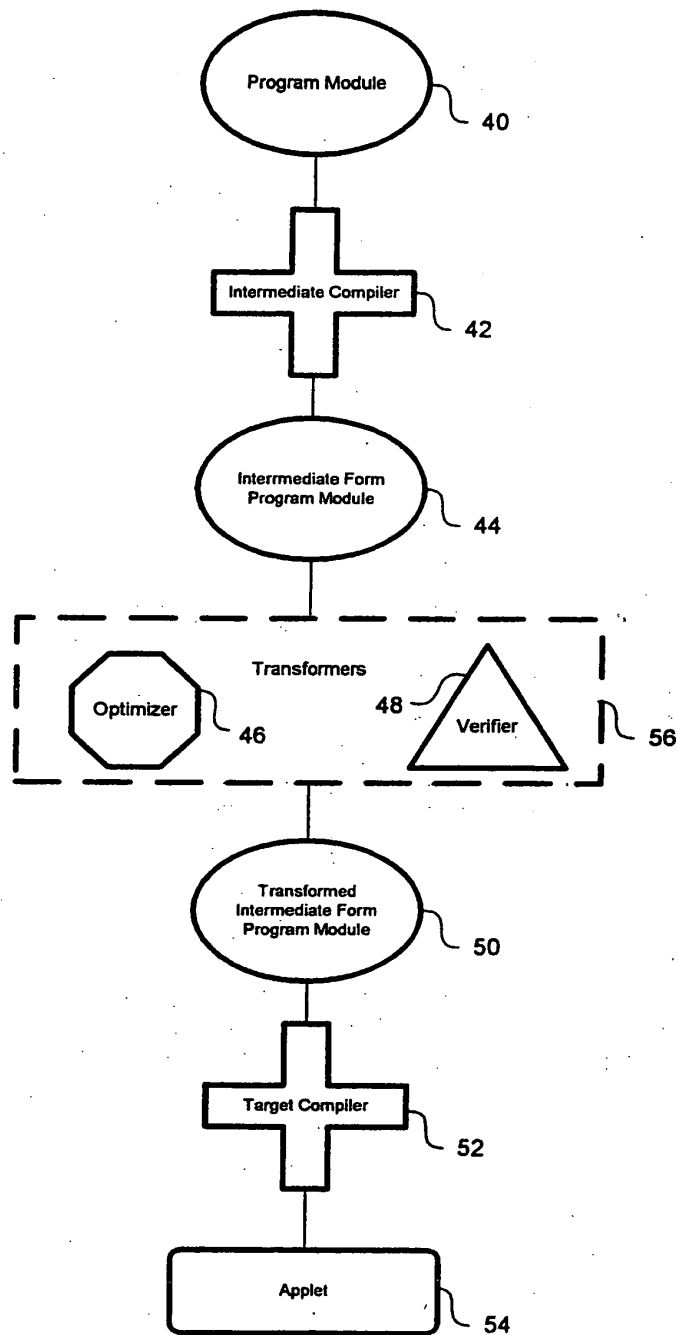


Fig. 3

DECLARATION AND POWER OF ATTORNEY
IN PATENT APPLICATION

Attorney Docket No.: 1598-1

As a below named inventor, I hereby declare:

My residence, post office address and citizenship are as stated below next to my name;

I believe that I am the original, first and sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are listed below) of the subject matter that is claimed and for which a patent is sought on the invention entitled:

APPLICATION SERVER

the specification of which

XX is attached hereto.

 was filed on as U.S. Application Serial
No. (or PCT International Application No.)
and was amended on (if
applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d), of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

<u>Number</u>	<u>Country</u>	<u>Date Filed</u>	<u>Priority</u>
_____	_____	_____ Day/Mo/Yr	_____ Yes/No
_____	_____	_____ Day/Mo/Yr	_____ Yes/No

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below.

<u>Application No.</u>	<u>Filing Date</u>
_____	_____

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below, and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56, which became available between the filing date of the prior application and the national or PCT international filing date of this application.

<u>Serial Number</u>	<u>Filing Date</u>	<u>Status: Patented Pending/Abandoned</u>
_____	_____	_____
_____	_____	_____

I hereby appoint the attorneys associated with Customer No. 07-1897 to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith.

Address all correspondence and phone calls to:

Gregory P. Silberman
GRAYBEAL JACKSON HALEY LLP
777-108th Avenue NE
Suite 2460
Bellevue, WA 98004-5117
(425) 455-5575

I hereby further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Edward Balassanian USA
Full Name of Inventor Citizenship

12724 NE 94th Ct, Kirkland, Washington 98033
Residence

Same
Post Office Address

SS/BL 3/18/98
Inventor's Signature Date

PATENT APPLICATION SERIAL NO _____

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE
FEE RECORD SHEET

10/06/2005 MWOLDGE1 00000087 134500 11241985

01 FC:2011	150.00 DA
02 FC:2111	250.00 DA
03 FC:2311	100.00 DA

PTO-1556
(5/87)

U.S. Government Printing Office: 2002 — 496-267/89033

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875 Effective December 8, 2004

Application or Docket Number

11241985

APPLICATION AS FILED - PART I

(Column 1)

(Column 2)

SMALL ENTITY

OR

OTHER THAN
SMALL ENTITY

FOR	NUMBER FILED	NUMBER EXTRA
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A
SEARCH FEE (37 CFR 1.16(h), (i), or (m))	N/A	N/A
EXAMINATION FEE (37 CFR 1.16(d), (e), or (k))	N/A	N/A
TOTAL CLAIMS (37 CFR 1.16(j))	minus 20 =	-
INDEPENDENT CLAIMS (37 CFR 1.16(n))	minus 3 =	-
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).	
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))		

RATE (\$)	FEE (\$)
N/A	150.00
N/A	\$250
N/A	\$100
X\$ 25 =	
X100 =	
+180=	
TOTAL	500

OR

RATE (\$)	FEE (\$)
N/A	300.00
N/A	\$500
N/A	\$200
X\$50 =	
X200 =	
+360=	
TOTAL	

*If the difference in column 1 is less than zero, enter "0" in column 2.

APPLICATION AS AMENDED - PART II

(Column 1)

(Column 2)

(Column 3)

SMALL ENTITY

OR

OTHER THAN
SMALL ENTITY

AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
Total (37 CFR 1.16(g))	Minus	**	=
Independent (37 CFR 1.16(n))	Minus	***	=
Application Size Fee (37 CFR 1.16(s))			
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(i))			

RATE (\$)	ADDITIONAL FEE (\$)
X\$ 25 =	
X100 =	
+180=	
TOTAL ADD'L FEE	

OR

OR

OR

OR

OR

RATE (\$)	ADDITIONAL FEE (\$)
X\$50 =	
X200 =	
+360=	
TOTAL ADD'L FEE	

(Column 1)

(Column 2)

(Column 3)

AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
Total (37 CFR 1.16(g))	Minus	**	=
Independent (37 CFR 1.16(n))	Minus	***	=
Application Size Fee (37 CFR 1.16(s))			
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(i))			

RATE (\$)	ADDITIONAL FEE (\$)
X\$ 25 =	
X100 =	
+180=	
TOTAL ADD'L FEE	

OR

OR

OR

OR

OR

RATE (\$)	ADDITIONAL FEE (\$)
X\$50 =	
X200 =	
+360=	
TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Edward Balassanian
Serial No.: To Be Assigned
Filed: Concurrently Herewith
For: APPLICATION SERVER
Group Art Unit: To Be Assigned
Examiner: To Be Assigned

INFORMATION DISCLOSURE STATEMENT

Mail Stop _____
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to Rule 56, applicant hereby calls the attention of the Patent Office to the references listed on the attached Form PTO 1449A and 1449B.

Copy(ies) of these references:

- ☐ are attached (i.e., Foreign Patents, Other Documents)
- ☒ were cited in related/parent application U.S. Serial No(s) 09/040,972, now Patent No. 6,324,685B1, filed March 18, 1998 and Serial No. 09/968,704, filed October 1, 2001, respectively.
- ☐ This document is being filed within three (3) months of the filing date of the application
- ☐ A check for the requisite fee of \$180 is enclosed.
- ☒ This document is being concurrently filed with the above-identified application
- ☐ This document is being concurrently filed with an Request for Continued Examination (RCE)
- ☐ This document is being filed prior to a first Office Action
- ☐ This document is accompanied by a Search Report/Communication cited in a corresponding PCT or foreign counterpart application.
- ☒ The Commissioner is hereby authorized to charge any additional fees which may be required for this Information Disclosure Statement, or credit any overpayment to Deposit Account No. 13-4500, Order No. 3802-4066US2.

Respectfully submitted,
MORGAN & FINNEGAN, L.L.P.

Dated: 10/4/05

By: _____

James Hwa
Registration No. 42,680
(202) 857-7887 Telephone
(202) 857-7929 Facsimile

Correspondence Address:

MORGAN & FINNEGAN, L.L.P.
3 World Financial Center
New York, NY 10281-2101

FORM PTO-1449A INFORMATION DISCLOSURE CITATION		Attorney Docket: 3802-4066US2		Serial No.: TBA	
		Applicant: Edward Balassanian			
		Filing Date: Concurrently herewith		Group Art Unit: TBA	
		U.S. PATENT DOCUMENTS			
Examiner Initial		Patent/Publication Number	Publication/Issue Date	Name	Filing Date
	1.	5,805,829	09-1998	Cohen et al.	
	2.	5,828,840	10-1998	Cowan et al.	
	3.	5,848,274	12-1998	Hambry et al.	
	4.	5,872,915	02-1999	Dykes et al.	
	5.	5,884,078	03-1999	Faustini	
	6.	6,636,900	10-2003	Abdelnur, Alejandro H.	
	7.	6,446,081	09-2002	Preston, Keith Robert	
	8.	5,761,421	06-1998	Van Hoff et al.	
	9.	5,706,502	01-1998	Foley et al.	
	10.	6,282,702	08-2001	Ungar, David	
	11.	6,836,889	12-2004	Chan et al.	
	12.	6,842,897	01-2005	Beadle et al.	
	13.	6,704,926	03-2004	Blandy et al.	
	14.	6,321,377	11-2001	Beadle et al.	
	15.	6,295,643	09-2001	Brown et al.	
	16.	6,745,386	06-2004	Yellin, Frank N.	
	17.	6,742,165	05-2004	Lev et al.	
	18.	6,594,820	07-2003	Ungar, David	
	19.	6,230,184	05-2001	White et al.	
	20.	6,336,213	01-2002	Beadle et al.	
	21.	6,324,685	11-2001	Balassanian, Edward	
Examiner			Date Considered		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.					

FORM PTO-1449B INFORMATION DISCLOSURE CITATION		Attorney Docket: 3802-4066US2	Serial No.: TBA
		Applicant: Edward Balassanian	
		Filing Date: Concurrently herewith	Group Art Unit: TAB
NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
	1.	"Eliminating Unnecessary Synchronization," http://kimera.cs.washington.edu/synch/index.html [Accessed Oct. 4, 2000].	
	2.	Sirer, Emin Gün, "Kimera Paper Trail," http://kimera.cs.washington.edu/related/index.html [Accessed Oct. 4, 2000].	
	3.	Sirer, Emin Gün, "Java, Extensibility and Security Related Links," http://kimera.cs.washington.edu/papers/index.html [Accessed Oct. 4, 2000].	
	4.	Sirer, Emin Gün, "Java-Relevant Articles in the Press," http://kimera.cs.washington.edu/press/index.html [Accessed Oct. 4, 2000].	
	5.	"Project Members," http://kimera.cs.washington.edu/members.html [Accessed Oct. 4, 2000].	
	6.	Emin Gün Sirer, et al., "Distributed Virtual Machines: A System Architecture for Network Computing," Dept. of Computer Science & Engineering, University of Washington, Seattle, Washington http://kimera.cs.washington.edu Feb. 26, 1998.	
	7.	Emin Gün Sirer, et al., "Design and Implementation of a Distributed Virtual Machine for Networked Computers," University of Washington, Department of Computer Science & Engineering, University of Washington, Seattle, Washington, 17 th ACM symposium on Operating system Principles, Dec. 1999.	
	8.	Emin Gün Sirer, et al., "A System Architecture for Next Generation Network Computing," Dept. of Computer Science & Engineering, University of Washington, Seattle, Washington http://www.dynacorp-is.com/darpa/meetings/gradmeet9/Whitepapers/darpa-wp.html Jun. 26, 1998.	
	9.	Sirer, Emin Gün, http://kimera.cs.washington.edu/homes/egs/ [Accessed Oct. 4, 2000].	
	10.	Sirer, Emin Gün, "Kimera-A System Architecture for Networked Computers," http://kimera.cs.washington.edu/ [Accessed Oct. 4, 2000].	
	11.	Emin Gün Sirer and Brian Bershad, "Kimera Architecture," http://kimera.cs.washington.edu/overview.html [Accessed Oct. 4, 2000].	
	12.	Sirer, Emin Gün, "Security Flaws in Java Implementations," http://kimera.cs.washington.edu/flaws/index.html [Accessed Oct. 4, 2000].	
	13.	Sirer, Emin Gün, "Kimera Bytecode Verification," http://kimera.cs.washington.edu/verifier.html [Accessed Oct. 4, 2000].	
	14.	Sirer, Emin Gün, "Kimera Test Suite," http://kimera.cs.washington.edu/testsuite.html [Accessed Oct. 4, 2000].	
	15.	Sirer, Emin Gün, "Kimera Disassembler," http://kimera.cs.washington.edu/disassembler.html [Accessed Oct. 4, 2000].	

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

**REVOCATION OF POWER OF
ATTORNEY WITH
NEW POWER OF ATTORNEY
AND
CHANGE OF CORRESPONDENCE ADDRESS**

Application Number	11/241,985
Filing Date	Oct. 4, 2005
First Named Inventor	Edward Balassanian
Art Unit	
Examiner Name	
Attorney Docket Number	IMPL-1-1006

I hereby revoke all previous powers of attorney given in the above-identified application.

☐ A Power of Attorney is submitted herewith.

OR

☒ I hereby appoint the practitioners associated with the Customer Number:

25315

☒ Please change the correspondence address for the above-identified application to:

☒ The address associated with
Customer Number:

25315

OR

☐ Firm or Individual Name				
Address				
City		State		Zip
Country				
Telephone		Email		

I am the:

☒ Applicant/Inventor.

☐ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)

SIGNATURE of Applicant or Assignee of Record

Signature			
Name	Edward Balassanian		
Date	5/16/06	Telephone	

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☒ *Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.36. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Electronic Acknowledgement Receipt

EFS ID:	1071768
Application Number:	11241985
Confirmation Number:	6573
Title of Invention:	Application server
First Named Inventor:	Edward Balassanian
Correspondence Address:	MORGAN & FINNEGAN, L.L.P. - 3 World Financial Center - New York NY 10281-2101 US 2028577929 -
Filer:	Michael Stevens Smith/Tricia Walker
Filer Authorized By:	Michael Stevens Smith
Attorney Docket Number:	3802-4066US2
Receipt Date:	08-JUN-2006
Filing Date:	04-OCT-2005
Time Stamp:	13:27:54
Application Type:	Utility
International Application Number:	

Payment information:

Submitted with Payment	no
------------------------	----

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)	Multi Part	Pages
1	Power of Attorney (may include Associate POA)	IMPL-1-1006RPOA.pdf	65952	no	1
Warnings:					
Information:					
Total Files Size (in bytes):			65952		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.					



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/241,985	10/04/2005	Edward Balassanian	IMPL-1-1006	6573
25315 7590 04/14/2009 BLACK LOWE & GRAHAM, PLLC 701 FIFTH AVENUE SUITE 4800 SEATTLE, WA 98104			EXAMINER KHATRI, ANIL	
			ART UNIT 2191	PAPER NUMBER
			NOTIFICATION DATE 04/14/2009	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docketing-patent@blacklaw.com
smith@blacklaw.com

Office Action Summary	Application No. 11/241,985	Applicant(s) BALASSANIAN, EDWARD	
	Examiner Anil Khatri	Art Unit 2191	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on 04 October 2005.

2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) 1 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) ☐ Claim(s) _____ is/are allowed.

6) ☒ Claim(s) 1 is/are rejected.

7) ☐ Claim(s) _____ is/are objected to.

8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) ☐ The specification is objected to by the Examiner.

10) ☒ The drawing(s) filed on 04 October 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☐ All b) ☐ Some * c) ☐ None of:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>10/4/05</u> .	4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____. 5) ☐ Notice of Informal Patent Application 6) ☐ Other: _____.
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DETAILED ACTION

Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The use of the trademark Java, applet etc. has been noted in this application. It should be capitalized TM wherever it appears and be accompanied by the generic terminology.

Although the use of trademarks is permissible in patent applications, the proprietary nature of the marks should be respected and every effort made to prevent their use in any manner which might adversely affect their validity as trademarks.

Information Disclosure Statement

The information disclosure statement filed on 10/4/2005 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited foreign patent document; each non-patent literature publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claim 1 is rejected under 35 USC 101 because they disclose a claimed invention that is an abstract idea as defined in the case *In re Warmerdam*, 33, F 3d 1354, 31 USPQ 2d 1754 (Fed. Cir. 1994).

Analysis: Claim 1 disclosed by the applicant as being a “method for operating on a computer...”. Since the claims are each a series of steps to be performed on a computer the processes must be analyzed to determine whether they are statutory under 35 USC 101.

Examiner interprets that the claim 1 is non-statutory because it do not disclose that how a method will carry out its intended results of receiving etc. Claim 1 is directed to program per se and system without showing how and where is been done? Applicant submit no substance that how this will be processed without incorporating a processor, memory and medium. Therefore, claim 1 is merely manipulation of instructions without representing intermediate steps so its functionality can be realized. Thus, claim 1 is not able to produce useful results other than just compiles and transmitting in client and server environment and is non-statutory and rejected under 35 USC 101.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the “right to exclude” granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claim 1 is rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-13 of U.S. Patent No. 6,976,249. Although the conflicting claims are not identical, they are not patentably distinct from each other because claim language is parallel and cites similar scope of the invention.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Ferris et al USPN 6,253,228.

Regarding claim 1

Ferris et al teaches,

receiving on server computer a request from a client computer for an applet in a form selected from a plurality of forms (column 4, lines 31-52, the present invention provides a method and

apparatus for integrating applets running on a client with applications running on a server (the client and server can be on the same or different computer systems). The mechanism of the present invention provides significant advantages over the prior art including the synchronization of information between a client and server, the recognition of user events in the browser, and the invocation of appropriate action logic in a server. The prior art provides for the use of HTML (a programming language used to define a Web page on the Internet). The Web page definition (written in HTML) consists of numerous elements that are combined to produce the entire page. One such element provides for a fill-in form (a HTML FORM element) that allows a user (client) to input information onto a form displayed by the client. The FORM element has many limitations that the present invention addresses using individual applications or applets that run on a client. The applets are defined outside of a Web page and can be programmed to produce an unlimited number of input mechanisms to a user (e.g., checkboxes, textboxes, buttons, etc.).

compiling applet into selected form from a local resource comprising at least one source module and one compiler which acts on source module to produce selected form (columns 14-15, lines 56-67 and 1-20, the package is transferred from Communications Channel 303 to Action Coordinator 301. In one embodiment, the values that have changed are identified at step 613 (in such an embodiment, the package contains all of the values regardless of whether they have changed). The appropriate values are then transmitted to the appropriate instances of Association 302 at step 614. The instances of Associations 302 distribute the values back to Applets 201 at step 615. Instead of rendering a whole new page (as in the prior art), the

applet updates the Web page using the updates received from Associations 302 on the display device if required at step 616. As previously discussed, in the preferred embodiment of the present invention, Action Coordinator 301 maintains a dictionary of the keys and their values at the time of the last communication with the server (referred to as a snapshot of the keys and their values). When Action Coordinator 201 queries Associations 302 to determine the keys and their values, a comparison is performed between the values contained in the dictionary and the values stored in Associations 302. Only those values that have changed since the last communication with the server are compiled into the package that is transmitted to the server. In addition, in the preferred embodiment of the present invention, the server also maintains a dictionary containing the keys and their bindings to application logic variables (bindings) at the time of the last communication with Controller 202 (a snapshot). Prior to transmitting the package back to Controller 202, all of the bindings are evaluated and only those values that have changed during the course of execution of the action are packaged and transmitted back to the controller 202. In this manner, only those bindings that require synchronization are transmitted to the server and vice versa); and

transmitting applet in selected form to client computer (column 6, lines 21-43, in the computer industry, a program that commences operation from a WWW document (an HTML document) is referred to as an "applet". An applet can be used to transmit data to a server and receive data from the server without having to transmit the entire Web page. The present invention provides a method for synchronizing information between a client browser and a server (the client and server can be the same or different computer systems). To avoid the limitations present with the

FORM element, the preferred embodiment of the present invention uses individual applets that retrieve user input and an applet controller that manages communication between the applets and the browser and server. The applets can be written using a programming language such as Java. The advantages of a programming language such as Java include: the ability to write an unlimited number and variety of programs, Java applications will run on almost any supporting platform without the need to recompile the code, Java is widely used in WWW applications, and a Java program may be embedded into a Web page (HTML document). Further, a Java program may execute its action logic on either a client or a server (although applets often execute logic on a client's computer).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anil Khatri whose telephone number is 571-272-3725. The examiner can normally be reached on M-F 8:30-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wei Zhen can be reached on 571-272-3708. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Anil Khatri/
Primary Examiner
Art Unit 2191

Notice of References Cited	Application/Control No. 11/241,985		Applicant(s)/Patent Under Reexamination BALASSANIAN, EDWARD	
	Examiner Anil Khatri		Art Unit 2191	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-6,253,228	06-2001	Ferris et al.	709/203
*	B	US-5,943,496	08-1999	Li et al.	719/328
*	C	US-6,317,781	11-2001	De Boor et al.	709/217
*	D	US-6,832,263	12-2004	Polizzi et al.	709/246
*	E	US-6,282,702	08-2001	Ungar, David	717/148
*	F	US-6,327,701	12-2001	Ungar, David	717/125
*	G	US-6,718,540	04-2004	Azua et al.	717/148
*	H	US-6,330,710	12-2001	O'Neil et al.	717/100
*	I	US-6,976,248	12-2005	Balassanian, Edward	717/148
*	J	US-6,324,685	11-2001	Balassanian, Edward	717/118
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

FORM PTO-1449A INFORMATION DISCLOSURE CITATION		Attorney Docket: 3802-4066US2		Serial No.: TBA	
		Applicant: Edward Balassanian			
		Filing Date: Concurrently herewith		Group Art Unit: TBA	
		U.S. PATENT DOCUMENTS			
Examiner Initial		Patent/Publication Number	Publication/Issue Date	Name	Filing Date
	1.	5,805,829	09-1998	Cohen et al.	
	2.	5,828,840	10-1998	Cowan et al.	
	3.	5,848,274	12-1998	Hambry et al.	
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	5.	5,884,078	03-1999	Faustini	
	6.	6,636,900	10-2003	Abdelnur, Alejandro H.	
	7.	6,446,081	09-2002	Preston, Keith Robert	
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	14.	6,321,377	11-2001	Beadle et al.	
	15.	6,295,643	09-2001	Brown et al.	
	16.	6,745,386	06-2004	Yellin, Frank N.	
	17.	6,742,165	05-2004	Lev et al.	
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	19.	6,230,184	05-2001	White et al.	
	20.	6,336,213	01-2002	Beadle et al.	
	21.	6,324,685	11-2001	Balassanian, Edward	
Examiner /Anil Khatri/			Date Considered 03/31/2009		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.					

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.K./

FORM PTO-1449B		Attorney Docket: 3802-4066US2	Serial No.: TBA
INFORMATION DISCLOSURE CITATION		Applicant: Edward Balassanian	
		Filing Date: Concurrently herewith	Group Art Unit: TAB
NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
	1.	~~"Eliminating Unnecessary Synchronization," http://kimera.cs.washington.edu/synch/index.html [Accessed Oct. 4, 2000].~~	
	2.	~~Sirer, Emin Gün, "Kimera Paper Trail," http://kimera.cs.washington.edu/related/index.html [Accessed Oct. 4, 2000].~~	
	3.	~~Sirer, Emin Gün, "Java, Extensibility and Security Related Links," http://kimera.cs.washington.edu/papers/index.html [Accessed Oct. 4, 2000].~~	
	4.	~~Sirer, Emin Gün, "Java-Relevant Articles in the Press," http://kimera.cs.washington.edu/press/index.html [Accessed Oct. 4, 2000].~~	
	5.	~~"Project Members," http://kimera.cs.washington.edu/members.html [Accessed Oct. 4, 2000].~~	
	6.	~~Emin Gün Sirer, et al., "Distributed Virtual Machines: A System Architecture for Network Computing," Dept. of Computer Science & Engineering, University of Washington, Seattle, Washington http://kimera.cs.washington.edu Feb. 26, 1998.~~	
	7.	~~Emin Gün Sirer, et al., "Design and Implementation of a Distributed Virtual Machine for Networked Computers," University of Washington, Department of Computer Science & Engineering, University of Washington, Seattle, Washington, 17th ACM symposium on Operating system Principles, Dec. 1999.~~	
	8.	~~Emin Gün Sirer, et al., "A System Architecture for Next Generation Network Computing," Dept. of Computer Science & Engineering, University of Washington, Seattle, Washington http://www.dyncorp-is.com/darpa/meetings/gradmeet9/Whitepapers/darpa-wp.html Jun. 26, 1998.~~	
	9.	~~Sirer, Emin Gün, http://kimera.cs.washington.edu/homes/egs/ [Accessed Oct. 4, 2000].~~	
	10.	~~Sirer, Emin Gün, "Kimera-A System Architecture for Networked Computers," http://kimera.cs.washington.edu/ [Accessed Oct. 4, 2000].~~	
	11.	~~Emin Gün Sirer and Brian Bershad, "Kimera Architecture," http://kimera.cs.washington.edu/overview.html [Accessed Oct. 4, 2000].~~	
	12.	~~Sirer, Emin Gün, "Security Flaws in Java Implementations," http://kimera.cs.washington.edu/flaws/index.html [Accessed Oct. 4, 2000].~~	
	13.	~~Sirer, Emin Gün, "Kimera Bytecode Verification," http://kimera.cs.washington.edu/verifier.html [Accessed Oct. 4, 2000].~~	
	14.	~~Sirer, Emin Gün, "Kimera Test Suite," http://kimera.cs.washington.edu/testsuite.html [Accessed Oct. 4, 2000].~~	
	15.	~~Sirer, Emin Gün, "Kimera Disassembler," http://kimera.cs.washington.edu/disassembler.html [Accessed Oct. 4, 2000].~~	

Examiner Signature	/Anil Khatri/	Date Considered	03/31/2009
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	384	(717/100).OCLS.	USPAT; USOCR	OR	OFF	2009/04/01 09:53
L2	1	("6976248").PN.	USPAT; USOCR	OR	OFF	2009/04/01 09:56
L3	1	("6324685").PN.	USPAT; USOCR	OR	OFF	2009/04/01 09:58
L4	103	(717/102).OCLS.	USPAT; USOCR	OR	OFF	2009/04/01 09:59
L5	103	(717/103).OCLS.	USPAT; USOCR	OR	OFF	2009/04/01 09:59
L6	248	(717/118).OCLS.	USPAT; USOCR	OR	OFF	2009/04/01 09:59
L7	266	(717/148).OCLS.	USPAT; USOCR	OR	OFF	2009/04/01 09:59
L8	5577	(709/203).OCLS.	USPAT; USOCR	OR	OFF	2009/04/01 10:00

4/ 1/ 2009 10:40:12 AM**C:\ Documents and Settings\ akhatri\ My Documents\ EAST\ Workspaces\ 11103300.
wsp**

Search Notes 	Application/Control No.		Applicant(s)/Patent under Reexamination	
	11/241,985		BALASSANIAN, EDWARD	
	Examiner		Art Unit	
	Anil Khatri		2191	

SEARCHED			
Class	Subclass	Date	Examiner
717	100, 102	4/1/2009	AK
717	103, 148	4/1/2009	AK
709	203	4/1/2009	AK

INTERFERENCE SEARCHED			
Class	Subclass	Date	Examiner

SEARCH NOTES (INCLUDING SEARCH STRATEGY)		
	DATE	EXMR
East	4/1/2009	AK
inventor/DP search 6976248, 6324685	4/1/2009	AK



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BIB DATA SHEET

CONFIRMATION NO. 6573

SERIAL NUMBER 11/241,985	FILING or 371(c) DATE 10/04/2005 RULE	CLASS 717	GROUP ART UNIT 2191	ATTORNEY DOCKET NO. IMPL-1-1006		
APPLICANTS Edward Balassanian, Kirkland, WA; ** CONTINUING DATA ***** This application is a CON of 09/968,704 10/01/2001 PAT 6,976,248 which is a CON of 09/040,972 03/18/1998 PAT 6,324,685 ** FOREIGN APPLICATIONS ***** ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED *** SMALL ENTITY ** 10/31/2005						
Foreign Priority claimed ☐ Yes ☒ No 35 USC 119(a-d) conditions met ☐ Yes ☒ No Verified and /ANIL KHATRI/ Acknowledged Examiner's Signature		☐ Met after Allowance Initials	STATE OR COUNTRY WA	SHEETS DRAWINGS 3	TOTAL CLAIMS 1	INDEPENDENT CLAIMS 1
ADDRESS BLACK LOWE & GRAHAM, PLLC 701 FIFTH AVENUE SUITE 4800 SEATTLE, WA 98104 UNITED STATES						
TITLE Application server						
FILING FEE RECEIVED 500	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:			☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit		

FILED ELECTRONICALLY
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Edward Balassanian
Application No. : 11/241,985
Filed : October 10, 2005
For : APPLETS IN VARIOUS FORMS

Examiner : Anil Khatri
Art Unit : 2191
Docket No. : 90159-5
Date : July 14, 2009

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT

INTRODUCTORY COMMENTS

Commissioner for Patents:

In response to the Office Action dated April 14, 2009, please
amend the application as shown on the following pages:

AMENDMENT TO THE CLAIMS

Please cancel claim 1.

Please add new claims 2-34.

1. (Canceled)
2. (New) A method operating on a computer system, having a client computer and a server computer, for managing requests to the server computer, the method comprising:
 - at the server computer, receiving a request from the client computer, the request identifying an application and identifying a form of the application, the identified form being one of a plurality of available forms; and
 - in response to receiving the request:
 - generating the identified form of the application from an intermediate form of the application;
 - transforming the application into a transformed version of the generated form of the application; and
 - sending the requested form of the application to the client computer.
3. (New) The method of claim 2 wherein generating comprises compiling the application from intermediate form.
4. (New) The method of claim 2 wherein the identified form of the application is specified using a Universal Resource Locator.
5. (New) The method of claim 2 wherein the identified form of the application is specified using a cookie.
6. (New) The method of claim 2 wherein the identified form of

the application is specified in an HTTP header.

7. (New) The method of claim 2 wherein the identified form of the application requested is all of a web page.

8. (New) The method of claim 2 wherein the identified form of the application requested is a portion of a web page.

9. (New) The method of claim 2 wherein transforming comprises execution of the generated form.

10. (New) The method of claim 2 wherein transforming comprises verification of the generated form.

11. (New) The method of claim 2 wherein transforming comprises optimization of the generated form.

12. (New) The method of claim 2 wherein transforming comprises compression of the generated form.

13. (New) A method operating on a computer system, having a client computer and a server computer, for managing requests to the server computer, the method comprising:

at the server computer, receiving a request from the client computer, the request identifying an application and identifying a form of the application, the identified form being one of a plurality of available forms; and

in response to receiving request:

compiling the application into the identified form;

transforming the compiled application into a transformed version of the compiled form of the application; and

sending the requested form of the application to the client

computer.

14. (New) The method of claim 13 wherein the identified form of the application is specified using a Universal Resource Locator.

15. (New) The method of claim 13 wherein the identified form of the application is specified using a cookie.

16. (New) The method of claim 13 wherein the identified form of the application is specified in a HTTP header.

17. (New) The method of claim 13 wherein the form of the application requested is all of a web page.

18. (New) The method of claim 13 wherein the form of the application requested is a portion of a web page.

19. (New) The method of claim 13 wherein transforming comprises execution of the compiled form.

20. (New) The method of claim 13 wherein transforming comprises verification of the generated form.

21. (New) The method of claim 13 wherein transforming comprises optimization of the generated form.

22. (New) The method of claim 13 wherein transforming comprises compression of the compiled form.

23. (New) A method operating on a computer system, having a client computer and a server computer, for generating an application in response

to a request by the client computer wherein each request for an application specifies one form of the application out of a plurality of forms of the application, comprising;

receiving on the server computer a request from the client computer for an application in a specified form from a plurality of available forms; compiling the application into on the specified form; and transmitting the generated application in the requested form to the client computer.

24. (New) The method of claim 23 wherein the identified form of the application is specified using a Universal Resource Locator.

25. (New) The method of claim 23 wherein the identified form of the application is specified using a cookie.

26. (New) The method of claim 23 wherein the identified form of the application is specified in a HTTP header.

27. (New) The method of claim 23 wherein the form of the application requested is all of a web page.

28. (New) The method of claim 23 wherein the form of the application requested is a portion of a web page.

29. (New) A method operating on a computer system, having a client computer and a server computer, for managing requests to the server computer, the method comprising:

receiving a request from the client computer, the request identifying an application and identifying a form of the application, the identified form being one of a plurality of available forms; and

the server computer, in response to receiving the request:

compiling the identified form of the application;
caching the compiled form of the application;
transforming the compiled form of the application; and
sending the requested form of the applications to the client
computer.

30. (New) The method of claim 29 wherein transforming
comprises compression of the compiled form.

31. (New) The method of claim 29 wherein transforming
comprises execution of the generated form.

32. (New) The method of claim 29 wherein transforming comprises
verification of the generated form.

33. (New) The method of claim 29 wherein transforming comprises
optimization of the generated form.

34. (New) The method of claim 29 wherein caching the compiled
form of the application comprises storing the compiled form of the application in
local memory.

REMARKS

The present amendment is in response to the Office Action dated April 14, 2009. Claim1 is now present in this case. Claim 1 has been canceled. No claims have been amended. New claims 2-34 have been added.

The applicant wishes to note that responsibility for this case has been transferred to a new law firm. A revocation and substitute Power of Attorney will be filed in the near future.

Claim1 is rejected under 35 U.S.C. § 101 as disclosing a claimed invention that is an abstract idea. Claim1 is also subject to a non-statutory obviousness-type double patenting rejection. Finally, claim 1 stands rejected under 35 U.S.C. § 102(e) as anticipated by U.S. Patent No. 6,253,228 to Ferris et al. Claim 1 is canceled thereby rendering these multiple rejections moot.

The applicant has submitted claims 2-34 to more clearly state the claimed subject matter of the present Continuation application.

In view of the above amendments and remarks, reconsideration of the subject application and its allowance are kindly requested. The applicant has made a good faith effort to place all claims in condition for allowance. If questions remain regarding the present application, the Examiner is invited to contact the undersigned at (206) 757-8029.

Respectfully submitted,
Edward Balassanian
Davis Wright Tremaine LLP

/Michael J. Donohue, Reg. #35,859/
Michael J. Donohue

MJD:mn

1201 Third Avenue
Suite 2200
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Fax: (206) 757-7029

13098140v1

Electronic Acknowledgement Receipt	
EFS ID:	5701738
Application Number:	11241985
International Application Number:	
Confirmation Number:	6573
Title of Invention:	Application server
First Named Inventor/Applicant Name:	Edward Balassanian
Customer Number:	25315
Filer:	Michael J. Donohue/Michelle Newkirk
Filer Authorized By:	Michael J. Donohue
Attorney Docket Number:	IMPL-1-1006
Receipt Date:	14-JUL-2009
Filing Date:	04-OCT-2005
Time Stamp:	19:35:14
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment/Req. Reconsideration-After Non-Final Reject	Implicit-5-Amendment.pdf	11922 671dc87a9213a00db748561bcf125d366a3797cc	no	9

Warnings:

Information:

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875					Application or Docket Number 11/241,985		Filing Date 10/04/2005		☐ To be Mailed					
APPLICATION AS FILED – PART I														
(Column 1)			(Column 2)			SMALL ENTITY ☒		OR		OTHER THAN SMALL ENTITY				
FOR		NUMBER FILED	NUMBER EXTRA		RATE (\$)	FEE (\$)	OR		RATE (\$)	FEE (\$)				
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A	N/A		N/A				N/A					
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))		N/A	N/A		N/A				N/A					
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A	N/A		N/A				N/A					
TOTAL CLAIMS (37 CFR 1.16(i))		minus 20 =	*		X \$ =				X \$ =					
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =	*		X \$ =				X \$ =					
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).												
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))														
* If the difference in column 1 is less than zero, enter "0" in column 2.														
APPLICATION AS AMENDED – PART II														
(Column 1)			(Column 2)			(Column 3)			SMALL ENTITY		OR		OTHER THAN SMALL ENTITY	
AMENDMENT	07/14/2009	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)		RATE (\$)	ADDITIONAL FEE (\$)				
	Total (37 CFR 1.16(i))	* 33	Minus	** 20	= 13	X \$26 =	338	OR	X \$ =					
	Independent (37 CFR 1.16(h))	* 4	Minus	***3	= 1	X \$110 =	110	OR	X \$ =					
	☐ Application Size Fee (37 CFR 1.16(s))													
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))													
						TOTAL ADD'L FEE	448	OR	TOTAL ADD'L FEE					
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)		RATE (\$)	ADDITIONAL FEE (\$)				
	Total (37 CFR 1.16(i))	*	Minus	**	=	X \$ =		OR	X \$ =					
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X \$ =		OR	X \$ =					
	☐ Application Size Fee (37 CFR 1.16(s))													
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))													
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE					
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.														

Legal Instrument Examiner:
/ELMIRA HALL/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Document code: WFEE

United States Patent and Trademark Office
Sales Receipt for Accounting Date: 08/11/2009

EHALL1	SALE	#00000001	Mailroom Dt: 07/14/2009	040258	11241985
		01	FC : 2202	338.00	DA
		02	FC : 2201	110.00	DA

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(b).

I hereby appoint:

☒ Practitioners associated with the Customer Number: 22504

OR

☐ Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(b).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(b) to:

☐ The address associated with Customer Number:

OR

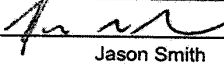
☒ Firm or Individual Name	Implicit Networks, Inc. - Intellectual Property Department		
Address	218 Main Street, Suite 498		
City	Kirkland	State	WA Zip 98033
Country	US		
Telephone	425-503-5044	Email	docketing@implicitnetworks.com

Assignee Name and Address:

Implicit Networks, Inc.
218 Main Street, Suite 498
Kirkland, WA 98033

A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record
The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date	7-23-2009
Name	Jason Smith	Telephone	425-503-5044
Title	Authorized Person for Implicit Networks, Inc.		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Implicit Networks, Inc.

Application No./Patent No.: 11/241,985

Filed/Issue Date: 04-Oct-2005

Titled: APPLICATION SERVER

Implicit Networks, Inc., a corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest in;
2. ☐ an assignee of less than the entire right, title, and interest in
(The extent (by percentage) of its ownership interest is _____ %); or
3. ☐ the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made)

the patent application/patent identified above, by virtue of either:

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy therefore is attached.

OR

- B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: BALASSANIAN, EDWARD

To: BECOMM CORPORATION

The document was recorded in the United States Patent and Trademark Office at

Reel 012264, Frame 0008, or for which a copy thereof is attached.

2. From: BECOMM CORPORATION

To: IMPLICIT NETWORKS, INC.

The document was recorded in the United States Patent and Trademark Office at

Reel 015748, Frame 0521, or for which a copy thereof is attached.

3. From: _____

To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☐ As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Michael J. Donohue, Reg No. 35859/

July 27, 2009

Signature

Date

Michael J. Donohue, Reg No. 35859

Attorney of record

Printed or Typed Name

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Electronic Acknowledgement Receipt	
EFS ID:	5774457
Application Number:	11241985
International Application Number:	
Confirmation Number:	6573
Title of Invention:	Application server
First Named Inventor/Applicant Name:	Edward Balassanian
Customer Number:	25315
Filer:	Michael J. Donohue/Selah Brown
Filer Authorized By:	Michael J. Donohue
Attorney Docket Number:	IMPL-1-1006
Receipt Date:	27-JUL-2009
Filing Date:	04-OCT-2005
Time Stamp:	15:17:47
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	POA.pdf	109827 6af103c8c0da16619d34a7735338adb655a e5abb	no	1

Warnings:

Information:

2	Assignee showing of ownership per 37 CFR 3.73(b).	005US2.pdf	6293 b2c814e1fa60ea359f3ff74943372386d1371e21	no	1
Warnings:					
Information:					
Total Files Size (in bytes):				116120	
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					



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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/241,985	10/04/2005	Edward Balassanian	IMPL-1-1006

22504
DAVIS WRIGHT TREMAINE, LLP/Seattle
1201 Third Avenue, Suite 2200
SEATTLE, WA 98101-3045

CONFIRMATION NO. 6573
POA ACCEPTANCE LETTER



Date Mailed: 08/03/2009

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 07/27/2009.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

/tkim/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/241,985	10/04/2005	Edward Balassanian	IMPL-1-1006

CONFIRMATION NO. 6573

POWER OF ATTORNEY NOTICE



25315
BLACK LOWE & GRAHAM, PLLC
701 FIFTH AVENUE
SUITE 4800
SEATTLE, WA 98104

Date Mailed: 08/03/2009

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 07/27/2009.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

/tkim/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

FILED ELECTRONICALLY
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Edward Balassanian
Application No. : 11/241,985
Filed : October 10, 2005
For : APPLETS IN VARIOUS FORMS

Examiner : Anil Khatri
Art Unit : 2191
Docket No. : 90159-5US2
Date : September 3, 2009

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL AMENDMENT

INTRODUCTORY COMMENTS

Commissioner for Patents:

In response to the Office Action dated April 14, 2009, please
amend the application as shown on the following pages:

AMENDMENT TO THE CLAIMS

Please amend claims 2, 3, 7, 8, 13, 17, 18, 20, 21, 23-26, 29, and 31-33 to read as follows.

Please add new claims 35-46.

1. (Canceled)
2. (Currently Amended) A method operating on a computer system, having a client computer and a server computer, for managing requests to the server computer, the method comprising:
 - at the server computer, receiving a request from the client computer, the request identifying an application and identifying a form of the application, the identified form being one of a plurality of available forms; and
 - in response to receiving the request:
 - generating the identified form of the application from an ~~intermediate~~ a source form of the application;
 - transforming the application into a transformed version of the generated form of the application; and
 - sending the ~~requested~~ transformed form of the application to the client computer.
3. (Currently Amended) The method of claim 2 wherein generating comprises compiling the application from ~~intermediate~~ the source form.
4. (Previously Presented) The method of claim 2 wherein the identified form of the application is specified using a Universal Resource Locator.
5. (Previously Presented) The method of claim 2 wherein the identified form of the application is specified using a cookie.

6. (Previously Presented) The method of claim 2 wherein the identified form of the application is specified in an HTTP header.

7. (Currently Amended) The method of claim 2 wherein the ~~identified~~ transformed form of the application ~~requested~~ is ~~all of~~ a web page.

8. (Currently Amended) The method of claim 2 wherein the ~~identified~~ transformed form of the application ~~requested~~ is a portion of a web page.

9. (Previously Presented) The method of claim 2 wherein transforming comprises execution of the generated form.

10. (Previously Presented) The method of claim 2 wherein transforming comprises verification of the generated form.

11. (Previously Presented) The method of claim 2 wherein transforming comprises optimization of the generated form.

12. (Previously Presented) The method of claim 2 wherein transforming comprises compression of the generated form.

13. (Currently Amended) A method operating on a computer system, having a client computer and a server computer, for managing requests to the server computer, the method comprising:

at the server computer, receiving a request from the client computer, the request identifying an application and identifying a form of the application, ~~the identified form being one of a plurality of available forms~~; and

in response to receiving a request:

compiling the application into ~~the identified~~ a compiled form;
transforming the compiled application into a transformed

version of the compiled form of the application; and

sending the ~~requested~~ transformed form of the application to the client computer.

14. (Previously Presented) The method of claim 13 wherein the identified form of the application is specified using a Universal Resource Locator.

15. (Previously Presented) The method of claim 13 wherein the identified form of the application is specified using a cookie.

16. (Previously Presented) The method of claim 13 wherein the identified form of the application is specified in a HTTP header.

17. (Currently Amended) The method of claim 13 wherein the identified form of the application ~~requested~~ is ~~all of~~ a web page.

18. (Currently Amended) The method of claim 13 wherein the identified form of the application requested is a portion of a web page.

19. (Previously Presented) The method of claim 13 wherein transforming comprises execution of the compiled form.

20. (Currently Amended) The method of claim 13 wherein transforming comprises verification of the ~~generated~~ compiled form.

21. (Currently Amended) The method of claim 13 wherein transforming comprises optimization of the ~~generated~~ compiled form.

22. (Previously Presented) The method of claim 13 wherein transforming comprises compression of the compiled form.

23. (Currently Amended) A method operating on a computer system, having a client computer and a server computer, for generating an application in response to a request by the client computer wherein each request for an application specifies one form of the application out of a plurality of forms of the application, comprising;
receiving on the server computer a request from the client computer for an application in a specified form from a plurality of available forms;
compiling the application to thereby generate ~~into~~ on the specified form; and
transmitting the generated application in the ~~requested~~ specified form to the client computer.

24. (Currently Amended) The method of claim 23 wherein the ~~identified~~ specified form of the application is specified using a Universal Resource Locator.

25. (Currently Amended) The method of claim 23 wherein the ~~identified~~ specified form of the application is specified using a cookie.

26. (Currently Amended) The method of claim 23 wherein the ~~identified~~ specified form of the application is specified in a HTTP header.

27. (Previously Presented) The method of claim 23 wherein the form of the application requested is all of a web page.

28. (Previously Presented) The method of claim 23 wherein the form of the application requested is a portion of a web page.

29. (Currently Amended) A method operating on a computer system, having a client computer and a server computer, for managing requests to the server computer, the method comprising:

receiving a request from the client computer, the request identifying an application and identifying a form of the application, ~~the identified form being one of a plurality of available forms~~; and

the server computer, in response to receiving the request:

compiling ~~the identified~~ a form of the application;

caching the compiled form of the application;

transforming the compiled form of the application to thereby generate the identified form of the application; and

sending the ~~requested~~ identified form of the applications to the client computer.

30. (Previously Presented) The method of claim 29 wherein transforming comprises compression of the compiled form.

31. (Currently Amended) The method of claim 29 wherein transforming comprises execution of the ~~generated~~ compiled form.

32. (Currently Amended) The method of claim 29 wherein transforming comprises verification of the ~~generated~~ compiled form.

33. (Currently Amended) The method of claim 29 wherein transforming comprises optimization of the ~~generated~~ compiled form.

34. (Previously Presented) The method of claim 29 wherein caching the compiled form of the application comprises storing the compiled form of the application in local memory.

Please add the following new claims:

35. (New) The method of claim 2 wherein the identified form of the application is sent to the client computer in an HTTP response.

36. (New) The method of claim 13 wherein the identified form of the application is sent to the client computer in an HTTP response.

37. (New) The method of claim 13, further comprising:
storing a plurality of available forms of the application;
the server, in response to receiving the request, determining if the identified form of the application is one of the stored plurality of available forms of the application; and

if the identified form of the application is one of the stored plurality of available forms, sending the identified form of the application to the client computer without compiling and transforming.

38. (New) The method of claim 13, further comprising:
storing a plurality of available forms of the application;
the server, in response to receiving the request, determining if the identified form of the application is one of the stored plurality of available forms of the application; and

if the identified form of the application is one of the stored plurality of available forms, sending the identified form of the application to the client computer without compiling.

39. (New) The method of claim 23 wherein the specified form of the application is transmitted to the client computer in an HTTP response.

40. (New) The method of claim 23 wherein the specified form of the application is sent to the client computer in an HTTP Response.

41. (New) A method operating on a computer system, having a client computer and a server computer, for managing requests to the server computer, the method comprising:

at the server computer, receiving a request from the client computer, the request identifying an application and identifying a form of the application; and

in response to receiving the request:

generating the identified form of the application from an a source form of the application;

transforming the application into a transformed version of the generated form of the application; and

sending the transformed form of the application to the client computer.

42. (New) The method of claim 41, further comprising:

storing a plurality of available forms of the application;

the server, in response to receiving the request, determining if the identified form of the application is one of the stored plurality of available forms of the application; and

if the identified form of the application is one of the stored plurality of available forms, sending the identified form of the application to the client computer without generating and transforming.

43. (New) The method of claim 41, further comprising:

storing a plurality of available forms of the application;

the server, in response to receiving the request, determining if the identified form of the application is one of the stored plurality of available forms of the application; and

if the identified form of the application is one of the stored plurality of available forms, sending the identified form of the application to the client computer without generating.

44. (New) A method operating on a computer system, having a client computer and a server computer, for managing requests to the server

computer, the method comprising:

- receiving a request from the client computer, the request identifying an application and identifying a form of the application; and
- the server computer, in response to receiving the request:
 - compiling the identified form of the application;
 - caching the compiled form of the application;
 - transforming the compiled form of the application to thereby generate the identified form of the application;
 - sending the identified form of the applications to the client computer; and
 - caching the identified form of the application.

45. (New) A method operating on a computer system, having a client computer and a server computer, for managing requests to the server computer, the method comprising:

- receiving a request from the client computer, the request identifying an application and identifying a form of the application; and
- the server computer, in response to receiving the request:
 - transforming the identified form of the application;
 - compiling the transformed form of the application;
 - caching the compiled form of the application;
 - transforming the compiled form of the application to thereby generate the identified form of the application; and
 - sending the identified form of the applications to the client computer.

46. (New) A method operating on a computer system, having a client computer and a server computer, for managing requests to the server computer, the method comprising:

- receiving a request from the client computer, the request identifying an application and identifying a form of the application; and

the server computer, in response to receiving the request:
compiling the identified form of the application;
transforming the compiled form of the application to thereby
generate the identified form of the application;
sending the identified form of the application to the client computer;
and
caching the identified form of the application.

REMARKS

The present supplemental amendment is in response to the Office Action dated April 14, 2009. Claims 2, 3, 7, 8, 13, 17, 18, 20, 21, 23-26, 29, and 31-33 have been amended. New claims 35-46 have been added.

The applicant has amended claims 2, 3, 7, 8, 13, 17, 18, 20, 21, 23-26, 29, 31-33 and added new claims 35-46 to more clearly state the claimed subject matter of the present continuation application.

The applicant respectfully requests reconsideration of the subject application and its allowance. If questions remain regarding the present application, the Examiner is invited to contact the undersigned at (206) 757-8029.

Respectfully submitted,
Edward Balassanian
Davis Wright Tremaine LLP

/Michael J. Donohue, Reg. #35,859/
Michael J. Donohue

MJD:mn

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Electronic Acknowledgement Receipt	
EFS ID:	6009852
Application Number:	11241985
International Application Number:	
Confirmation Number:	6573
Title of Invention:	Application server
First Named Inventor/Applicant Name:	Edward Balassanian
Customer Number:	22504
Filer:	Michael J. Donohue/Michelle Newkirk
Filer Authorized By:	Michael J. Donohue
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Receipt Date:	03-SEP-2009
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Time Stamp:	14:22:01
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment/Req. Reconsideration-After Non-Final Reject	Implicit5US2-Suppplemental-Amendment.pdf	17116 1d7e72bbf1cb96d7c6f1a94d3846461b13b81642	no	12

Warnings:

Information:

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/241,985	10/04/2005	Edward Balassanian	IMPL-1-1006	6573
22504 7590 10/14/2009 DAVIS WRIGHT TREMAINE, LLP/Seattle 1201 Third Avenue, Suite 2200 SEATTLE, WA 98101-3045			EXAMINER KHATRI, ANIL	
			ART UNIT 2191	PAPER NUMBER
			MAIL DATE 10/14/2009	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 11/241,985	Applicant(s) BALASSANIAN, EDWARD	
	Examiner Anil Khatri	Art Unit 2191	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on 03 September 2009.

2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) 2-46 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) ☐ Claim(s) _____ is/are allowed.

6) ☒ Claim(s) 2-46 is/are rejected.

7) ☐ Claim(s) _____ is/are objected to.

8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) ☐ The specification is objected to by the Examiner.

10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) ☐ All b) ☐ Some * c) ☐ None of:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. _____.

3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.	4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____. 5) ☐ Notice of Informal Patent Application 6) ☐ Other: _____.
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Response to Amendment

1. This action is in response to the request for reconsideration filed on 9/3/09.
2. No arguments were presented by the applicant in the remarks submitted on 9/3/09.
3. As per applicant's request claim 1 has been canceled.
4. As per applicant's request claims 2, 3, 7, 8, 13, 17, 18, 20, 21, 23-26, 29 and 31-33 have been amended.
5. As per applicant's request new claims 35-46 have been added.
6. As per applicant's request claims 2-46 has been considered but they are not persuasive.
7. Claims 2-46 are rejected under 35 U.S.C. 102(e) as being unpatentable over Ferris et al. USPN 6,253,228.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 2-46 are rejected under 35 U.S.C. 102(e) as being unpatentable over Ferris et al USPN 6,253,228.

Regarding claims 2, 13, 23, 29, 41 and 44-46

Ferris et al teaches

at the server computer, receiving a request from the client computer, the request identifying an application and identifying a form of the application, the identified form being one of a plurality of available forms (see summery of the invention, column 2, line 38, to submit a request, the client contacts the HTTP server and transmits the request to the HTTP server. The request contains the communication method requested for the transaction (e.g., GET an object from the server or POST data to an object on the server). The HTTP server responds to the client by sending a status of the request and the requested information. The connection is then terminated between the client and the HTTP server) and (column 4, line 41, the prior art provides for the use of HTML (a programming language used to define a Web page on the Internet). The Web page definition (written in HTML) consists of numerous elements that are combined to produce the entire page. One such element provides for a fill-in form (a HTML FORM element) that allows a user (client) to input information onto a form displayed by the client. The FORM element has many limitations that the present invention addresses using individual applications or applets that run on a client. The applets are defined outside of a Web page and can be programmed to produce an unlimited number of input mechanisms to a user (e.g., checkboxes, textboxes, buttons, etc.); and

in response to receiving the request: generating the identified form of the application from an intermediate a source form of the application (column 6, line 25, the present invention provides a method for synchronizing information between a client browser and a server (the client and server can be the same or different computer systems). To avoid the limitations present with the FORM element, the preferred embodiment of the present invention uses individual applets that retrieve user input and an applet controller that manages communication between the applets and the browser and server. The applets can be written using a programming language such as Java. The advantages of a programming language such as Java include: the ability to write an unlimited number and variety of programs, Java applications will run on almost any supporting platform without the need to recompile the code, Java is widely used in WWW applications, and a Java program may be embedded into a Web page (HTML document). Further, a Java program may execute its action logic on either a client or a server (although applets often execute logic on a client's computer)and

transforming the application into a transformed version of the generated form of the application; and sending the transformed form of the application to the client computer (column 2, line 46, a client request therefore, consists of establishing a connection between the client and the HTTP server, performing the request, and terminating the connection. The HTTP server does not retain any information about the request after the connection has been terminated. HTTP is, therefore, a

stateless protocol. That is, a client can make several requests of an HTTP server, but each individual request is treated independent of any other request. The server has no recollection of any previous request. The server does not retain state from a prior request) and (column 3, line 39, HTML includes a FORM element that provides the ability to create a fill-in form for the client. An HTML document containing a FORM element permits the user to enter information. The user enters the information through the use of a limited number of FORM components: checkboxes; radio boxes; pull-down lists; text windows; and menus. Additional components cannot be created using an HTML FORM element. The information entered through the FORM components is transmitted as a single unit to a gateway program on the HTTP server. In this manner, FORMs can be used to input information. However, FORM elements may not be placed inside a HEADING element, inside another FORM, or inside character emphasis markups (i.e. STRONG or EM). As a result, all information input into a FORM must be transmitted in one unit. Thus, several FORMs must be created in order to transfer information to several different gateway programs. In this manner, if the gateway program merely requires one parameter, an entire FORM must be created to accept the parameter from the user. In addition, the FORM element does not provide functionality for synchronizing data between a client and a server.

Regarding claim 3

Ferris et al teaches

Art Unit: 2191

Compiling the application form the source form (column 15, line 1, as previously discussed, in the preferred embodiment of the present invention, Action Coordinator 301 maintains a dictionary of the keys and their values at the time of the last communication with the server (referred to as a snapshot of the keys and their values). When Action Coordinator 201 queries Associations 302 to determine the keys and their values, a comparison is performed between the values contained in the dictionary and the values stored in Associations 302. Only those values that have changed since the last communication with the server are compiled into the package that is transmitted to the server. In addition, in the preferred embodiment of the present invention, the server also maintains a dictionary containing the keys and their bindings to application logic variables (bindings) at the time of the last communication with Controller 202 (a snapshot). Prior to transmitting the package back to Controller 202, all of the bindings are evaluated and only those values that have changed during the course of execution of the action are packaged and transmitted back to the controller 202. In this manner, only those bindings that require synchronization are transmitted to the server and vice versa).

Regarding claims 4, 14 and 24

Ferris et al teaches

Art Unit: 2191

the identified form of the application is specified using a Universal Resource Locator (column 2, line 56, an addressing scheme is employed to identify Internet resources (e.g., HTTP server, file or program). This addressing scheme is called Uniform Resource Locator (URL). A URL contains the protocol to use when accessing the server (e.g., HTTP), the Internet domain name of the site on which the server is running, the port number of the server, and the location of the resource in the file structure of the server).

Regarding claims 5, 15 and 25

Ferris et al teaches

the identified form of the application is specified using a cookie (column 14, line 7, Action Coordinator 301 transfers the package to Communications Channel 303. Communications Channel 303 provides a standard interface to Controller 202 and implements an arbitrary channel of communication 203 back to the server. Communications Channel 303 transmits the package to the server at step 606 via channel of communication 203. Communications Channel 203 may be implemented in a variety of different communication protocols. However, in the preferred embodiment of the present invention, Communications Channel 203 is implemented in HTTP to communicate with the server in the same manner as a browser. Further, by using HTTP, the present invention uses a communication channel that is already being passed through a firewall (a firewall is machine that fits between a local network (e.g., a company's internal network) and the

internet and limits the access that can pass between the internal local network and the internet as a whole) in order to allow access to the web site. Consequently, by using HTTP, there is no need to create a new hole in the Firewall).

Regarding claims 6, 16, 26, 35, 36, 39 and 40

Ferris et al teaches

The identified form of the application is specified in an HTTP header (column 3, line 6, if the client request is for a file, the HTTP server locates the file and sends it to the client. An HTTP server also has the ability to delegate work to Common Gateway Interface (CGI) programs. The CGI specification defines the mechanisms by which HTTP servers communicate with gateway programs. A gateway program is referenced using a URL. The HTTP server activates the program specified in the URL and uses CGI mechanisms to pass program data sent by the client to the gateway program. Data is passed from the server to the gateway program via command-line arguments, standard input, or environment variables. The gateway program processes the data, generates an HTML document, and returns the HTML document as its response to the server using CGI (via standard input, for example). The server forwards the HTML document to the client using the HTTP. In this respect, although the gateway programs have the ability to generate HTML, the document displayed by the browser remains a static document. Thus, each time information is requested from the server, a completely new HTML document containing the information is created, transmitted to the client, and loaded/rendered on the client's browser).

Regarding claims 7, 8, 17, 18, 27 and 28

Ferris et al teaches

transformed form of the application a web page (column 6, line 25, the present invention provides a method for synchronizing information between a client browser and a server (the client and server can be the same or different computer systems). To avoid the limitations present with the FORM element, the preferred embodiment of the present invention uses individual applets that retrieve user input and an applet controller that manages communication between the applets and the browser and server. The applets can be written using a programming language such as Java. The advantages of a programming language such as Java include: the ability to write an unlimited number and variety of programs, Java applications will run on almost any supporting platform without the need to recompile the code, Java is widely used in WWW applications, and a Java program may be embedded into a Web page (HTML document). Further, a Java program may execute its action logic on either a client or a server (although applets often execute logic on a client's computer).

Regarding claims 9-12

Ferris et al teaches

transforming comprises execution of the generated form (column 4, line 7, as described above, the gateway program (which has to be specifically designed to accept the name/value pairs from the client) performs the desired actions or methods

and generates an HTML document that is transmitted back to the client (with the results of the desired action, if any). Since the server is stateless, to preserve any of the name/value pairs originally transmitted to the server, the server or CGI program must retransmit the name/value pairs back to the client in an `<INPUT TYPE="hidden">` element, within the returned HTML document (which may contain a new FORM), as a record of the state of the client-server transaction. Therefore, each time information needs to be updated on the client's browser due to changes made during execution of the gateway program, an HTML definition that defines the Web page (including any name/value pairs within a new FORM) must be transmitted to the client for rendering on the client's display. The transmission and rendering of an entire page is time consuming and undesirable, especially when only a small portion of the page has changed. As a result, information transmitted through using the current capabilities is not efficient and cannot be displayed quickly on the client and/or server).

Regarding claims 19-22 and 30-34

Ferris et al teaches

Transforming comprises verification of the compiled form (column 4, line 41, the prior art provides for the use of HTML (a programming language used to define a Web page on the Internet). The Web page definition (written in HTML) consists of numerous elements that are combined to produce the entire page. One such element provides for a fill-in form (a HTML FORM element) that allows a user (client) to input information

onto a form displayed by the client. The FORM element has many limitations that the present invention addresses using individual applications or applets that run on a client. The applets are defined outside of a Web page and can be programmed to produce an unlimited number of input mechanisms to a user (e.g., checkboxes, textboxes, buttons, etc.).

Regarding claims 37, 38, 42 and 43

Ferris et al teaches

storing a plurality of available forms of the application (column 3, line 39, HTML includes a FORM element that provides the ability to create a fill-in form for the client. An HTML document containing a FORM element permits the user to enter information. The user enters the information through the use of a limited number of FORM components: checkboxes; radio boxes; pull-down lists; text windows; and menus. Additional components cannot be created using an HTML FORM element. The information entered through the FORM components is transmitted as a single unit to a gateway program on the HTTP server. In this manner, FORMs can be used to input information. However, FORM elements may not be placed inside a HEADING element, inside another FORM, or inside character emphasis markups (i.e. STRONG or EM). As a result, all information input into a FORM must be transmitted in one unit. Thus, several FORMs must be created in order to transfer information to several different gateway programs. In this manner, if the gateway program merely requires one parameter, an entire FORM must be created to accept the parameter from the

user. In addition, the FORM element does not provide functionality for synchronizing data between a client and a server);

the server, in response to receiving the request, determining if the identified form of the application is one of the stored plurality of available forms of the application (column 3, line 61, the information collected on a form is sent to a gateway program in NAME/VALUE pairs, where NAME is the value assigned to the name attribute of the element, and VALUE is the value assigned by the user's input. For example, if the user named a pull-down list "CITY" and selected the city of "HOUSTON" from the pull-down list, the NAME/VALUE pair sent to the gateway program is "CITY/HOUSTON". In this manner, all of the information collected from the user is transmitted to the gateway program. However, the FORM element does not provide the ability to transmit the name-value pairs from the server back to the client. Additionally, the FORM element does not identify the action to be taken by the server or the gateway program); and

if the identified form of the application is one of the stored plurality of available forms, sending the identified form of the application to the client computer without compiling and transforming (column 4, line 7, as described above, the gateway program (which has to be specifically designed to accept the name/value pairs from the client) performs the desired actions or methods and generates an HTML document that is transmitted back to the client (with the results of the desired action, if any). Since the server

is stateless, to preserve any of the name/value pairs originally transmitted to the server, the server or CGI program must retransmit the name/value pairs back to the client in an <INPUT TYPE="hidden"> element, within the returned HTML document (which may contain a new FORM), as a record of the state of the client-server transaction. Therefore, each time information needs to be updated on the client's browser due to changes made during execution of the gateway program, an HTML definition that defines the Web page (including any name/value pairs within a new FORM) must be transmitted to the client for rendering on the client's display. The transmission and rendering of an entire page is time consuming and undesirable, especially when only a small portion of the page has changed. As a result, information transmitted through using the current capabilities is not efficient and cannot be displayed quickly on the client and/or server).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anil Khatri whose telephone number is 571-272-3725. The examiner can normally be reached on M-F 8:30-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wei Zhen can be reached on 571-272-3708. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Anil Khatri/
Primary Examiner, Art Unit 2191

IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

APPLICANT: Edward Balassanian
SERIAL NO.: 11/241,985
CONF. NO.: 6573
FILING DATE: October 4, 2005
TITLE: Applet Server That Provides Applets in Various Forms
EXAMINER: Khatri, Anil
ART UNIT NO.: 2191
ATTY DKT NO.: PA1048US

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Response to Final Office Action of October 14, 2009

Sir:

In response to the Final Office Action of October 14, 2009 (*Final Office Action*), please amend the pending claims as follows. A **Listing of Claims** begins on page **two**. **Remarks/Arguments** begin on page **twelve**. The **Conclusion** is on page **twenty**.

REMARKS

Claims 2 - 46 are currently pending in this application. Claims 2, 27, 28 and 41 have been amended to correct typographical errors.

New counsel notes that the Examiner does not explain his rejections, but repeatedly provides only conclusory statements that the cited reference teaches a step of one of Applicant's claims, followed by a citation to a line of the reference, followed by a verbatim recitation of the paragraph of the reference beginning at that line without even an express indication that the reference is being quoted.

As below, the cited portions of the reference do not teach, or indeed even relate to, the recited steps of the claims. Accordingly, Applicant respectfully requests that the Examiner either provide a detailed explanation of his rejection and the teaching of each step by the reference rather than a mere conclusion that it does so, or, as Applicant believes is more appropriate, withdraw the rejection.

Further, as explained below, the Examiner omits some of the steps of the claims from the Office Action. Applicant therefore assumes that these steps are not present in the reference, and the claims should thus be allowed.

CLAIM REJECTIONS UNDER 35 USC § 102(e)

Although the Examiner labels a section "Claim Rejections - 35 USC § 103," and quotes 35 U.S.C. § 103(a), both before and after this heading he states that Claims 2-46 are rejected under 35 U.S.C. § 102(e) as being unpatentable over *Ferris et al.*, U.S. Patent No. 6,253,228. Since *Ferris* is the only reference cited in the *Final Office Action*, and since the prior rejection was based upon 35 U.S.C. § 102(e) and the same reference, Applicant assumes that the current rejection is under 35 U.S.C. § 102(e) as well.

The citation of *Ferris* is mysterious, for what it teaches is significantly different than the present invention. In the first place, the present invention is an

applet *server* which accepts requests for applets from *client computers*, and fulfills those requests. *Abstract*. By contrast, *Ferris* integrates applets running on a *client* with application logic for applications running on the *server*, the reverse situation, to synchronize states and to recognize user actions in a browser (i.e., input data). *Abstract*. The present invention is not limited to these goals, and one seeking to deliver applets to a client *from* a server to a client would not look to a solution in which the applets are *already* running on the client.

The difference between *Ferris* and the present invention is further shown by the fact that *Ferris* never uses the word “transform” or any variant thereof in any context at all, much less in connection with applets or code. Applicant surmises that the Examiner has confused the “form” of the application in the present invention, i.e., whether it is source code, binary code or intermediate code, with the FORM element of HTML discussed in *Ferris*.

These are clearly not the same. As discussed in *Ferris*, the FORM element used in HTML provides the ability to create a fill-in form for the client and permits the user to enter information through a limited number of components including checkboxes, radio boxes, pull-down lists, text windows, and menus. Col. 3:39-44. *Ferris* is directed at providing functionality for synchronizing data between a client and server, previously missing in the FORM element. Col. 3:58-59. It has nothing to do with fulfilling requests from clients for applets as in the present invention.

As an example of the claims at issue, claim 2 reads as follows:

A method operating on a computer system, having a client computer and a server computer, for managing requests to the server computer, the method comprising:

at the server computer, receiving a request from the client computer, the request identifying an application and identifying a form of the application, the identified form being one of a plurality of available forms; and

in response to receiving the request:
 generating the identified form of the application from
 a source form of the application;
 transforming the application into a transformed
 version of the generated form of the application; and
 sending the transformed form of the application to
 the client computer.

The Examiner first states that as to claims 2, 13, 23, 29, 41 and 44-46, *Ferris* teaches the first step recited above, citing column 2, line 38, and column 4, line 41. These portions do not show “at the server computer, receiving a request from the client computer, the request identifying an application and identifying a form of the application, the identified form being one of a plurality of available forms” as the Examiner claims.

The paragraph at column 2, line 38, states that a client contacts the HTTP server and requests to receive or transmit *data*, not an application (see col. 2:36), the server sends a status of the request and any requested information, and the connection is then terminated. The paragraph at column 4, line 41, states only that the limitations of the FORM element in standard HTML, which allows a user to input information, are addressed in *Ferris* by applets *running on the client*.

Neither of these paragraphs shows a server receiving a request from a client identifying a requested application in a particular form from a plurality of available forms, as in claim 2. The Examiner is respectfully requested to further explain how *Ferris* teaches this element.

The Examiner next states that *Ferris* shows, in response to receiving the request, generating the identified form of the application from a source form of the application, citing column 6, line 25. That paragraph simply talks about synchronizing *information* between the browser and server, using applets to retrieve user input with an applet controller managing the communication. It

has nothing to do with identifying a requested application and the form of that application.

The Examiner never addresses the step of generating the identified form of the application from a source form of the application.

Next, the Examiner states that the paragraphs of *Ferris* at column 2, line 46, and column 3, line 39, teach transforming the application into a transformed version of the generated form of the application, and sending the transformed form of the application to the client.

First, since the Examiner has omitted any discussion of the step of generating the identified form of the application from a source form, there can be no transforming of the generated form of the application.

In any event, however, the cited paragraphs have nothing to do with these steps. The paragraph at column 2, line 46, state that a client request (again, to receive or transmit *data*, not applications) consists of establishing a connection to the HTTP server, performing the request, i.e. transmitting data in one direction or the other, and terminating the connection. The paragraph at column 3, line 39, as discussed above, only states that the FORM element used in HTML provides the ability to create a fill-in form for the client and permits the user to enter information through a limited number of components including checkboxes, radio boxes, pull-down lists, text windows, and menus, and that in the prior art to *Ferris*, cannot provide functionality for synchronizing data between a client and server.

Neither of these paragraphs says anything about transforming an applet or application, or sending a transformed form of an application to a client. Again, *Ferris* deals only with transmitting data, and the applets are already running on the client.

For at least these reasons, claims 2, 13, 23, 29, 41 and 44-46 are allowable over *Ferris*.

The Examiner next moves to claim 3, citing the paragraph of *Ferris* at column 15, line 1, as teaching compiling the application from the source form. That paragraph talks about an "Action Coordinator," part of the applet controller mentioned above, keeping track of keys to the applets, so that only changed values that require synchronization are transmitted to and from the server. But again, this is all related to the transmission of *data*, not applications. Further, nothing is said about compiling any application in this paragraph. For at least this reason, claim 3 is allowable over *Ferris*.

Applicant pauses to note that with respect to claims 4, 14 and 24, whether or not the use of a URL is independently patentable, these claims are allowable as dependent upon an allowable base claim.

Similarly, with respect to claims 5, 15 and 25, whether or not the use of a cookie is also independently patentable, again the claims are allowable as dependent upon an allowable base claim. However, Applicant notes that the paragraph of *Ferris* cited by the Examiner at column 14, line 7, has nothing to do with cookies, but rather with how the Communications Channel is implemented in HTTP. In fact, *Ferris* never mentions cookies at all. Applicant is mystified as to how the Examiner thinks this paragraph is even relevant.

Still further, claims 6, 16, 26, 35, 36, 39 and 40 are also allowable as dependent upon an allowable base claim, again whether or not specifying the identified form of the application in an HTTP header is independently

patentable. Again, however, the paragraph of *Ferris* at column 3, line 6, cited by the Examiner has nothing to do with this. Rather, that paragraph talks about how the HTTP server passes data or activates a program at the client. It says nothing about the HTTP header; in fact, *Ferris* *never* uses the word "header."

Next, with respect to claims 7, 8, 17, 18, 27 and 28, the Examiner states that the paragraph at column 6, line 25, of *Ferris*, teaches that the transformed form of the application is a web page (although the same language is not present in all of these claims). The cited paragraph again is only about the use of applets and an applet controller to synchronize information. While it does mention that applets may be written in Java and embedded in a web page, nowhere does it teach or suggest that an applet may itself be a web page. For at least this reason, claims 7, 8, 17, 18, 27 and 28 are allowable over *Ferris*.

As to claims 9-12, the Examiner states that the paragraph at column 4, line 7, of *Ferris* teaches transforming comprising execution of the generated form. (This is claim 9; the Examiner never discusses claims 10-12, which recite that transforming comprises verification, optimization, and compression, respectively.) The cited paragraph is about the gateway program and how it generates an HTML document; since there is no generated or transformed application in *Ferris*, it can say nothing about transforming comprising executing the generated form of the application (much less the verification, optimization or compression of claims 10-12 which the Examiner does not address). For at least this reason, claims 9-12 are allowable over *Ferris*.

The Examiner next refers to claims 19-22 and 30-34, and now states that *Ferris* teaches that transforming comprises verification of the compiled form of

the application in the paragraph at column 4, line 41. (This is the limitation of claims 20 and 32; the Examiner still ignores optimization, compression, or storing the compiled form of the application in local memory as in other claims.) As above, the cited paragraph states only that the limitations of the FORM element in standard HTML, which allows a user to input information, are addressed in *Ferris* by applets running on the client. Nowhere in this paragraph, or anywhere else in *Ferris*, is verification mentioned. (Nor are optimization or compression mentioned anywhere in *Ferris*.) For at least this reason, claims 19-22 and 30-34 are allowable over *Ferris*.

Finally, with respect to claims 37, 38, 42 and 43, the Examiner states that *Ferris* teaches storing a plurality of available forms of the application, citing column 3, line 39, the server, in response to the request, determining if the identified form of the application is one of stored plurality of available forms, column 3, line 61, and, if the identified form of the application is one of the stored plurality of available forms, sending the identified form of the application to the client computer without compiling and transforming. Column 4, line 7. (Again the Examiner does not discuss the differences between these claims.)

Again, in the present application a plurality of available forms of a requested application is available. If an application is transformed and sent to a client, it may be cached, and if another application requests the same transformed application, it may be retrieved from the cache and sent without creating the transformed application from source code all over again.

Ferris has nothing like this. Again, applications are not sent, only data. Since applications are already present on either the server or client, there is no transformation of applications, and no reason to transform them.

As above, the paragraph at column 3, line 39, only states that the FORM element used in HTML provides the ability to create a fill-in form for the client and permits the user to enter information through a limited number of components including checkboxes, radio boxes, pull-down lists, text windows, and menus, and that in the prior art to *Ferris*, cannot provide functionality for synchronizing data between a client and server.

The paragraph at column 3, line 61, is about how the collected data is sent through the gateway program.

The paragraph at column 4, line 7, is about the gateway program and how it generates an HTML document.

None of these paragraphs have anything to do with storing a plurality of available forms of the application, determining if the identified form of the application is one of stored plurality of available forms, and, if so, sending the identified form of the application to the client computer without compiling and transforming. As above, *Ferris* does not even teach or suggest receiving a request for or sending the applications at all.

For at least this reason, claims 37, 38, 42 and 43 are allowable over *Ferris*.

CONCLUSION

Applicants respectfully submit that the amended claims are allowable. *Ferris* has nothing to do with the present invention, and does not teach or suggest the steps claimed by the Examiner. The Examiner is respectfully requested to either provide a proper and detailed explanation of how *Ferris* anticipates the present invention or withdraw the rejection.

Applicants believe that all pending claims are allowable and respectfully request that the Examiner issue a Notice of Allowance. Should the Examiner have questions, Applicants' undersigned representative may be reached at the number provided below.

Respectfully submitted,
Edward Balassanian

Date: December 14, 2009

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Electronic Acknowledgement Receipt	
EFS ID:	6629764
Application Number:	11241985
International Application Number:	
Confirmation Number:	6573
Title of Invention:	Application server
First Named Inventor/Applicant Name:	Edward Balassanian
Customer Number:	22504
Filer:	Kenneth M. Kaslow
Filer Authorized By:	
Attorney Docket Number:	IMPL-1-1006
Receipt Date:	14-DEC-2009
Filing Date:	04-OCT-2005
Time Stamp:	15:35:11
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment After Final	PA1048US_Resp_to_101409_F OA.pdf	2923806 b904723b2b41d55c953c02b4ce63f91ab1f ac5b	no	20

Warnings:

Information:

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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875					Application or Docket Number 11/241,985		Filing Date 10/04/2005		☐ To be Mailed							
APPLICATION AS FILED – PART I																
(Column 1)			(Column 2)			SMALL ENTITY ☒		OR		OTHER THAN SMALL ENTITY						
FOR		NUMBER FILED		NUMBER EXTRA		RATE (\$)		FEE (\$)		RATE (\$)		FEE (\$)				
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		N/A		N/A				N/A						
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))		N/A		N/A		N/A				N/A						
☐ EXAMINATION FEE (37 CFR 1.16(c), (p), or (q))		N/A		N/A		N/A				N/A						
TOTAL CLAIMS (37 CFR 1.16(i))		minus 20 =		*		X \$ =				OR		X \$ =				
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =		*		X \$ =				OR		X \$ =				
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).														
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))																
* If the difference in column 1 is less than zero, enter "0" in column 2.																
APPLICATION AS AMENDED – PART II																
(Column 1)			(Column 2)			(Column 3)			SMALL ENTITY		OR		OTHER THAN SMALL ENTITY			
AMENDMENT	12/14/2009		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA		RATE (\$)		ADDITIONAL FEE (\$)		RATE (\$)		ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))		* 45		Minus ** 33		= 12		X \$26 =		312		OR		X \$ =	
	Independent (37 CFR 1.16(h))		* 8		Minus *** 4		= 4		X \$110 =		440		OR		X \$ =	
	☐ Application Size Fee (37 CFR 1.16(s))															
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))															
									TOTAL ADD'L FEE		752		OR		TOTAL ADD'L FEE	
AMENDMENT	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA		RATE (\$)		ADDITIONAL FEE (\$)		RATE (\$)		ADDITIONAL FEE (\$)			
	Total (37 CFR 1.16(i))		*		Minus **		=		X \$ =		OR		X \$ =			
	Independent (37 CFR 1.16(h))		*		Minus ***		=		X \$ =		OR		X \$ =			
	☐ Application Size Fee (37 CFR 1.16(s))															
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))															
									TOTAL ADD'L FEE		OR		TOTAL ADD'L FEE			
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.											Legal Instrument Examiner: /VENESSA JONES/					

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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LISTING OF CLAIMS

Please amend the claims as follows:

1. (Canceled)
2. (Currently amended) A method operating on a computer system, having a client computer and a server computer, for managing requests to the server computer, the method comprising:
 - at the server computer, receiving a request from the client computer, the request identifying an application and identifying a form of the application, the identified form being one of a plurality of available forms; and
 - in response to receiving the request:
 - generating the identified form of the application from [[an]] a source form of the application;
 - transforming the application into a transformed version of the generated form of the application; and
 - sending the transformed form of the application to the client computer.
3. (Previously presented) The method of claim 2 wherein generating comprises compiling the application from the source form.
4. (Previously presented) The method of claim 2 wherein the identified form of the application is specified using a Universal Resource Locator.

5. (Previously presented) The method of claim 2 wherein the identified form of the application is specified using a cookie.
6. (Previously presented) The method of claim 2 wherein the identified form of the application is specified in an HTTP header.
7. (Previously presented) The method of claim 2 wherein the transformed form of the application is a web page.
8. (Previously presented) The method of claim 2 wherein the transformed form of the application requested is a portion of a web page.
9. (Previously presented) The method of claim 2 wherein transforming comprises execution of the generated form.
10. (Previously presented) The method of claim 2 wherein transforming comprises verification of the generated form.
11. (Previously presented) The method of claim 2 wherein transforming comprises optimization of the generated form.
12. (Previously presented) The method of claim 2 wherein transforming comprises compression of the generated form.
13. (Previously presented) A method operating on a computer system, having a client computer and a server computer, for managing requests to the server computer, the method comprising:

at the server computer, receiving a request from the client computer, the request identifying an application and identifying a form of the application; and
in response to receiving a request:
compiling the application into a compiled form;
transforming the compiled application into a transformed version of the compiled form of the application; and
sending the transformed form of the application to the client computer.

14. (Previously presented) The method of claim 13 wherein the identified form of the application is specified using a Universal Resource Locator.

15. (Previously presented) The method of claim 13 wherein the identified form of the application is specified using a cookie.

16. (Previously presented) The method of claim 13 wherein the identified form of the application is specified in a HTTP header.

17. (Previously presented) The method of claim 13 wherein the identified form of the application is a web page.

18. (Previously presented) The method of claim 13 wherein the identified form of the application requested is a portion of a web page.

19. (Previously presented) The method of claim 13 wherein transforming comprises execution of the compiled form.

20. (Previously presented) The method of claim 13 wherein transforming comprises verification of the compiled form.
21. (Previously presented) The method of claim 13 wherein transforming comprises optimization of the compiled form.
22. (Previously presented) The method of claim 13 wherein transforming comprises compression of the compiled form.
23. (Previously presented) A method operating on a computer system, having a client computer and a server computer, for generating an application in response to a request by the client computer wherein each request for an application specifies one form of the application out of a plurality of forms of the application, comprising;
 - receiving on the server computer a request from the client computer for an application in a specified form from a plurality of available forms;
 - compiling the application to thereby generate the specified form; and
 - transmitting the generated application in the specified form to the client computer.
24. (Previously presented) The method of claim 23 wherein the specified form of the application is specified using a Universal Resource Locator.
25. (Previously presented) The method of claim 23 wherein the specified form of the application is specified using a cookie.

26. (Previously presented) The method of claim 23 wherein the specified form of the application is specified in a HTTP header.

27. (Currently amended) The method of claim 23 wherein the specified form of the application requested is ~~all of~~ a web page.

28. (Currently amended) The method of claim 23 wherein the specified form of the application requested is a portion of a web page.

29. (Previously presented) A method operating on a computer system, having a client computer and a server computer, for managing requests to the server computer, the method comprising:

receiving a request from the client computer, the request identifying an application and identifying a form of the application; and

the server computer, in response to receiving the request:

compiling a form of the application;

caching the compiled form of the application;

transforming the compiled form of the application to thereby generate the identified form of the application; and

sending the identified form of the applications to the client computer.

30. (Previously presented) The method of claim 29 wherein transforming comprises compression of the compiled form.

31. (Previously presented) The method of claim 29 wherein transforming comprises execution of the compiled form.

32. (Previously presented) The method of claim 29 wherein transforming comprises verification of the compiled form.
33. (Previously presented) The method of claim 29 wherein transforming comprises optimization of the compiled form.
34. (Previously presented) The method of claim 29 wherein caching the compiled form of the application comprises storing the compiled form of the application in local memory.
35. (Previously presented) The method of claim 2 wherein the identified form of the application is sent to the client computer in an HTTP response.
36. (Previously presented) The method of claim 13 wherein the identified form of the application is sent to the client computer in an HTTP response.
37. (Previously presented) The method of claim 13, further comprising:
 - storing a plurality of available forms of the application;
 - the server, in response to receiving the request, determining if the identified form of the application is one of the stored plurality of available forms of the application; and
 - if the identified form of the application is one of the stored plurality of available forms, sending the identified form of the application to the client computer without compiling and transforming.

38. (Previously presented) The method of claim 13, further comprising:
storing a plurality of available forms of the application;
the server, in response to receiving the request, determining if the
identified form of the application is one of the stored plurality of available forms
of the application; and
if the identified form of the application is one of the stored plurality of
available forms, sending the identified form of the application to the client
computer without compiling.
39. (Previously presented) The method of claim 23 wherein the specified form
of the application is transmitted to the client computer in an HTTP response.
40. (Previously presented) The method of claim 23 wherein the specified form
of the application is sent to the client computer in an HTTP Response.
41. (Currently amended) A method operating on a computer system, having a
client computer and a server computer, for managing requests to the server
computer, the method comprising:
at the server computer, receiving a request from the client computer, the
request identifying an application and identifying a form of the application; and
in response to receiving the request:
generating the identified form of the application from [[an]] a
source form of the application;
transforming the application into a transformed version of the
generated form of the application; and
sending the transformed form of the application to the client
computer.

42. (Previously presented) The method of claim 41, further comprising:
storing a plurality of available forms of the application;
the server, in response to receiving the request, determining if the
identified form of the application is one of the stored plurality of available forms
of the application; and
if the identified form of the application is one of the stored plurality of
available forms, sending the identified form of the application to the client
computer without generating and transforming.
43. (Previously presented) The method of claim 41, further comprising:
storing a plurality of available forms of the application;
the server, in response to receiving the request, determining if the
identified form of the application is one of the stored plurality of available forms
of the application; and
if the identified form of the application is one of the stored plurality of
available forms, sending the identified form of the application to the client
computer without generating.
44. (Previously presented) A method operating on a computer system, having
a client computer and a server computer, for managing requests to the server
computer, the method comprising:
receiving a request from the client computer, the request identifying an
application and identifying a form of the application; and
the server computer, in response to receiving the request:
compiling the identified form of the application;

- caching the compiled form of the application;
- transforming the compiled form of the application to thereby generate the identified form of the application;
- sending the identified form of the applications to the client computer; and
- caching the identified form of the application.

45. (Previously presented) A method operating on a computer system, having a client computer and a server computer, for managing requests to the server computer, the method comprising:

- receiving a request from the client computer, the request identifying an application and identifying a form of the application; and
- the server computer, in response to receiving the request:
 - transforming the identified form of the application;
 - compiling the transformed form of the application;
 - caching the compiled form of the application;
 - transforming the compiled form of the application to thereby generate the identified form of the application; and
 - sending the identified form of the applications to the client computer.

46. (Previously presented) A method operating on a computer system, having a client computer and a server computer, for managing requests to the server computer, the method comprising:

- receiving a request from the client computer, the request identifying an application and identifying a form of the application; and
- the server computer, in response to receiving the request:

- compiling the identified form of the application;
- transforming the compiled form of the application to thereby generate the identified form of the application;
- sending the identified form of the application to the client computer; and
- caching the identified form of the application.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/241,985	10/04/2005	Edward Balassanian	IMPL-1-1006	6573
22504 7590 01/20/2010 DAVIS WRIGHT TREMAINE, LLP/Seattle 1201 Third Avenue, Suite 2200 SEATTLE, WA 98101-3045			EXAMINER KHATRI, ANIL	
			ART UNIT 2191	PAPER NUMBER
			MAIL DATE 01/20/2010	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Advisory Action Before the Filing of an Appeal Brief	Application No. 11/241,985	Applicant(s) BALASSANIAN, EDWARD	
	Examiner Anil Khatri	Art Unit 2191	

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED 14 December 2009 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

1. ☒ The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:

a) ☐ The period for reply expires _____ months from the mailing date of the final rejection.

b) ☒ The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.

Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

NOTICE OF APPEAL

2. ☐ The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).

AMENDMENTS

3. ☒ The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will not be entered because

(a) ☒ They raise new issues that would require further consideration and/or search (see NOTE below);

(b) ☐ They raise the issue of new matter (see NOTE below);

(c) ☐ They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or

(d) ☐ They present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: _____. (See 37 CFR 1.116 and 41.33(a)).

4. ☐ The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).

5. ☐ Applicant's reply has overcome the following rejection(s): _____.

6. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).

7. ☒ For purposes of appeal, the proposed amendment(s): a) ☐ will not be entered, or b) ☒ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.

The status of the claim(s) is (or will be) as follows:

Claim(s) allowed: _____.

Claim(s) objected to: _____.

Claim(s) rejected: 2-46.

Claim(s) withdrawn from consideration: _____.

AFFIDAVIT OR OTHER EVIDENCE

8. ☐ The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).

9. ☐ The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing a good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).

10. ☐ The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

11. ☐ The request for reconsideration has been considered but does NOT place the application in condition for allowance because: _____.

12. ☐ Note the attached Information *Disclosure Statement*(s). (PTO/SB/08) Paper No(s). _____

13. ☒ Other: Need further search and consideration.

/Anil Khatri/
Primary Examiner, Art Unit 2191

Doc code: RCEX

Doc description: Request for Continued Examination (RCE)

PTO/SE/30EFS (07-09)

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL (Submitted Only via EFS-Web)							
Application Number	11241985	Filing Date	2005-10-04	Docket Number (if applicable)	PA1048US	Art Unit	2191
First Named Inventor	Edward Balassanian			Examiner Name	Khatri, Anil		
This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application. Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV							
SUBMISSION REQUIRED UNDER 37 CFR 1.114							
Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).							
☒ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked. ☒ Consider the arguments in the Appeal Brief or Reply Brief previously filed on 2009-12-14 ☐ Other ☐ Enclosed ☐ Amendment/Reply ☐ Information Disclosure Statement (IDS) ☐ Affidavit(s)/ Declaration(s) ☐ Other							
MISCELLANEOUS							
☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required) ☐ Other							
FEES							
The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed. ☒ The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 504658							
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED							
☒ Patent Practitioner Signature ☐ Applicant Signature							

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Doc description: Request for Continued Examination (RCE)

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U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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Signature of Registered U.S. Patent Practitioner			
Signature	/Kenneth M. Kaslow/	Date (YYYY-MM-DD)	2010-01-29
Name	Kenneth M. Kaslow	Registration Number	32246

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

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The information provided by you in this form will be subject to the following routine uses:

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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal				
Application Number:		11241985		
Filing Date:		04-Oct-2005		
Title of Invention:		Application server		
First Named Inventor/Applicant Name:		Edward Balassanian		
Filer:		Kenneth M. Kaslow		
Attorney Docket Number:		IMPL-1-1006		
Filed as Large Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Extension - 1 month with \$0 paid	1251	1	130	130

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Request for continued examination	1801	1	810	810
Total in USD (\$)				940

Electronic Acknowledgement Receipt	
EFS ID:	6915223
Application Number:	11241985
International Application Number:	
Confirmation Number:	6573
Title of Invention:	Application server
First Named Inventor/Applicant Name:	Edward Balassanian
Customer Number:	22504
Filer:	Kenneth M. Kaslow
Filer Authorized By:	
Attorney Docket Number:	IMPL-1-1006
Receipt Date:	29-JAN-2010
Filing Date:	04-OCT-2005
Time Stamp:	18:42:08
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$ 940
RAM confirmation Number	13452
Deposit Account	504658
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees) Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Continued Examination (RCE)	PA1048US_RCE_Request.pdf	511472	no	3
			01603355e7931846d55acff4009b3bab07c34e		

Warnings:

This is not a USPTO supplied RCE SB30 form.

Information:

2	Fee Worksheet (PTO-875)	fee-info.pdf	31865	no	2
			1a7a6c999503de8ebb79ba866a386d28d61e5995		

Warnings:**Information:**

Total Files Size (in bytes):			543337
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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875					Application or Docket Number 11/241,985		Filing Date 10/04/2005		☐ To be Mailed								
APPLICATION AS FILED – PART I																	
(Column 1)			(Column 2)			SMALL ENTITY ☒		OR		OTHER THAN SMALL ENTITY							
FOR		NUMBER FILED		NUMBER EXTRA		RATE (\$)		FEE (\$)									
☒ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		N/A		N/A		150									
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))		N/A		N/A		N/A											
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A		N/A		N/A											
TOTAL CLAIMS (37 CFR 1.16(i))		minus 20 =		*		X \$ =				OR X \$ =							
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =		*		X \$ =				OR X \$ =							
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).															
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))																	
* If the difference in column 1 is less than zero, enter "0" in column 2.																	
APPLICATION AS AMENDED – PART II																	
(Column 1)			(Column 2)			(Column 3)			SMALL ENTITY		OR		OTHER THAN SMALL ENTITY				
AMENDMENT	01/29/2010		CLAIMS REMAINING AFTER AMENDMENT				HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA		RATE (\$)		ADDITIONAL FEE (\$)				
	Total (37 CFR 1.16(i))		* 45		Minus		** 45		= 0		X \$26 =		0		OR X \$ =		
	Independent (37 CFR 1.16(h))		* 8		Minus		*** 8		= 0		X \$110 =		0		OR X \$ =		
	☐ Application Size Fee (37 CFR 1.16(s))																
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))																
						TOTAL ADD'L FEE						0		OR		TOTAL ADD'L FEE	
AMENDMENT			CLAIMS REMAINING AFTER AMENDMENT				HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA		RATE (\$)		ADDITIONAL FEE (\$)				
	Total (37 CFR 1.16(i))		*		Minus		**		=		X \$ =				OR X \$ =		
	Independent (37 CFR 1.16(h))		*		Minus		***		=		X \$ =				OR X \$ =		
	☐ Application Size Fee (37 CFR 1.16(s))																
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))																
						TOTAL ADD'L FEE								OR		TOTAL ADD'L FEE	
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.												Legal Instrument Examiner: /TAMMY MCBETH BROWN/					
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".																	
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".																	
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.																	

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PATENT AND TRADEMARK OFFICE

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FEB 10 2010

APPLICANT: Edward Balassanian
SERIAL NO.: 11/241,985
CONF. NO.: 6573
FILING DATE: October 4, 2005
TITLE: Applet Server That Provides Applets in Various Forms
EXAMINER: Khatri, Anil
ART UNIT NO.: 2191
ATTY DKT NO.: PA1048US

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Supplemental Amendment

Sir:

In light of the telephone interview between the Examiner and Applicant's counsel of February 3, 2010, please amend the pending claims as follows. A **Listing of Claims** begins on page **two**. **Remarks/Arguments** begin on page **twelve**. The **Conclusion** is on page **thirteen**.

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LISTING OF CLAIMS

Please amend the claims as follows:

1. (Canceled)
2. (Currently amended) A method operating on a computer system, having a client computer and a server computer, for managing requests to the server computer, the method comprising:
 - at the server computer, receiving a request from the client computer, the request identifying an application and identifying a form of the application, the identified form being one of a plurality of available forms; and
 - in response to receiving the request:
 - generating the identified form of the application from a source form of the application, wherein generating comprises:
 - compiling the source form of the application into a compiled form of the application; and
 - transforming the application into a transformed version of the generated form of the application, wherein transforming comprises compression of the compiled form of the application;
 - and
 - sending the transformed form of the application to the client computer.
3. (Canceled)

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4. (Previously presented) The method of claim 2 wherein the identified form of the application is specified using a Universal Resource Locator.
5. (Previously presented) The method of claim 2 wherein the identified form of the application is specified using a cookie.
6. (Previously presented) The method of claim 2 wherein the identified form of the application is specified in an HTTP header.
7. (Previously presented) The method of claim 2 wherein the transformed form of the application is a web page.
8. (Previously presented) The method of claim 2 wherein the transformed form of the application is a portion of a web page.
9. (Currently amended) The method of claim 2 wherein transforming further comprises execution of the generated form.
10. (Currently amended) The method of claim 2 wherein transforming further comprises verification of the generated form.
11. (Currently amended) The method of claim 2 wherein transforming further comprises optimization of the generated form.
12. (Canceled)

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13. (Currently amended) A method operating on a computer system, having a client computer and a server computer, for managing requests to the server computer, the method comprising:

at the server computer, receiving a request from the client computer, the request identifying an application and identifying a form of the application; and

in response to receiving a the request:

compiling the application into a compiled form;

transforming the compiled application into a transformed version form of the compiled form of the application, wherein transforming comprises execution and compression of the compiled form;

and

sending the transformed form of the application to the client computer.

14. (Previously presented) The method of claim 13 wherein the identified form of the application is specified using a Universal Resource Locator.

15. (Previously presented) The method of claim 13 wherein the identified form of the application is specified using a cookie.

16. (Previously presented) The method of claim 13 wherein the identified form of the application is specified in a HTTP header.

17. (Previously presented) The method of claim 13 wherein the identified form of the application is a web page.

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18. (Currently amended) The method of claim 13 wherein the identified form of the application ~~requested~~ is a portion of a web page.

19. (Canceled)

20. (Currently amended) The method of claim 13 wherein transforming further comprises verification of the compiled form.

21. (Currently amended) The method of claim 13 wherein transforming further comprises optimization of the compiled form.

22. (Canceled)

23. (Currently amended) A method operating on a computer system, having a client computer and a server computer, for generating an application in response to a request by the client computer wherein each request for an application specifies one form of the application out of a plurality of forms of the application, comprising;

receiving on the server computer a request from the client computer for an application in a specified form from a plurality of available forms;

compiling and compressing the application to thereby generate the specified form; and

transmitting the generated application in the specified form to the client computer.

24. (Previously presented) The method of claim 23 wherein the specified form of the application is specified using a Universal Resource Locator.

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25. (Previously presented) The method of claim 23 wherein the specified form of the application is specified using a cookie.

26. (Previously presented) The method of claim 23 wherein the specified form of the application is specified in a HTTP header.

27. (Currently amended) The method of claim 23 wherein the specified form of the application requested is ~~all of~~ a web page.

28. (Previously presented) The method of claim 23 wherein the specified form of the application requested is a portion of a web page.

29. (Currently amended) A method operating on a computer system, having a client computer and a server computer, for managing requests to the server computer, the method comprising:

receiving a request from the client computer, the request identifying an application and identifying a form of the application; and

the server computer, in response to receiving the request:

compiling a form of the application;

caching the compiled form of the application;

transforming the compiled form of the application to thereby generate the identified form of the application, wherein transforming comprises compression of the compiled form; and

sending the identified form of the application ~~applications~~ to the client computer.

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30. (Canceled)

31. (Currently amended) The method of claim 29 wherein transforming further comprises execution of the compiled form.

32. (Currently amended) The method of claim 29 wherein transforming further comprises verification of the compiled form.

33. (Currently amended) The method of claim 29 wherein transforming further comprises optimization of the compiled form.

34. (Previously presented) The method of claim 29 wherein caching the compiled form of the application comprises storing the compiled form of the application in local memory.

35. (Currently amended) The method of claim 2 wherein the identified transformed form of the application is sent to the client computer in an HTTP response.

36. (Currently amended) The method of claim 13 wherein the identified transformed form of the application is sent to the client computer in an HTTP response.

37. (Previously presented) The method of claim 13, further comprising:
storing a plurality of available forms of the application;

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the server, in response to receiving the request, determining if the identified form of the application is one of the stored plurality of available forms of the application; and

if the identified form of the application is one of the stored plurality of available forms, sending the identified form of the application to the client computer without compiling and transforming.

38. (Previously presented) The method of claim 13, further comprising:

storing a plurality of available forms of the application;

the server, in response to receiving the request, determining if the identified form of the application is one of the stored plurality of available forms of the application; and

if the identified form of the application is one of the stored plurality of available forms, sending the identified form of the application to the client computer without compiling.

39. (Previously presented) The method of claim 23 wherein the specified form of the application is transmitted to the client computer in an HTTP response.

40. (Previously presented) The method of claim 23 wherein the specified form of the application is sent to the client computer in an HTTP Response.

41. (Currently amended) A method operating on a computer system, having a client computer and a server computer, for managing requests to the server computer, the method comprising:

at the server computer, receiving a request from the client computer, the request identifying an application and identifying a form of the application; and

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in response to receiving the request:

generating the identified form of the application from a source form of the application, wherein generating comprises:

compiling the application from the source form into a compiled form;

transforming the application into a transformed version form of the generated compiled form of the application, wherein transforming comprises compression of the compiled form;

and

sending the transformed form of the application to the client computer.

42. (Previously presented) The method of claim 41, further comprising:
- storing a plurality of available forms of the application;
- the server, in response to receiving the request, determining if the identified form of the application is one of the stored plurality of available forms of the application; and
- if the identified form of the application is one of the stored plurality of available forms, sending the identified form of the application to the client computer without generating and transforming.

43. (Previously presented) The method of claim 41, further comprising:
- storing a plurality of available forms of the application;
- the server, in response to receiving the request, determining if the identified form of the application is one of the stored plurality of available forms of the application; and

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if the identified form of the application is one of the stored plurality of available forms, sending the identified form of the application to the client computer without generating.

44. (Currently amended) A method operating on a computer system, having a client computer and a server computer, for managing requests to the server computer, the method comprising:

receiving a request from the client computer, the request identifying an application and identifying a form of the application; and

the server computer, in response to receiving the request:

compiling ~~the identified~~ a source form of the application ;

caching the compiled form of the application;

transforming the compiled form of the application to thereby generate the identified form of the application, wherein transforming comprises compression of the compiled form;

sending the identified form of the applications to the client computer; and

caching the identified form of the application.

45. (Currently amended) A method operating on a computer system, having a client computer and a server computer, for managing requests to the server computer, the method comprising:

receiving a request from the client computer, the request identifying an application and identifying a form of the application; and

the server computer, in response to receiving the request:

~~transforming the identified form of the application;~~

compiling ~~the transformed~~ a source form of the application;

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caching the compiled form of the application;
transforming the compiled form of the application to thereby
generate the identified form of the application, wherein transforming the
compiled form comprises compression of the compiled form; and
sending the identified form of the ~~applications~~ application to the
client computer.

46. (Currently amended) A method operating on a computer system, having a
client computer and a server computer, for managing requests to the server
computer, the method comprising:

receiving a request from the client computer, the request identifying an
application and identifying a form of the application; and

the server computer, in response to receiving the request:

compiling ~~the identified~~ a source form of the application;

transforming the compiled form of the application to thereby
generate the identified form of the application, wherein transforming
comprises compression of the compiled form;

sending the identified form of the application to the client
computer; and

caching the identified form of the application.

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REMARKS

Claims 2, 4-11, 13-18, 20-21, 23-29, and 31-46 are currently pending in this application.

INTERVIEW SUMMARY

In a telephone conversation of February 3, 2010, between the Examiner and undersigned counsel for Applicant, the Examiner proposed certain changes to the claims and indicated that the claims would be allowable with such changes.

In particular, the Examiner indicated that if the limitations of claims 3 and 12 were brought into claims "1" (believed to mean claim 2), 41, and 44-46, the limitations of claims 19 and 22 brought into claim 13, and the limitation of claim 30 brought into claim 29, the case would be allowable.

Applicant thanks the Examiner for his consideration and the indication of allowability in light of these changes.

CLAIM AMENDMENTS

Independent claims 2, 13, 23, 29, 41, and 44-46 have been amended pursuant to the Examiner's proposal as discussed by telephone on February 3, 2010. Applicant notes that in some cases the proposed amendments appear to be redundant, i.e., the limitation of claim 3 of compiling the application is already present in some of the independent claims, as the Examiner apparently noticed with respect to claims 13 and 29.

Other minor amendments have been made. Claims 9-11, 20-21 and 31-33 have been amended to indicate that a step in an independent claim from which these claims depend now "further comprises" the limitation in each of these claims. Claims 2, 13 and 41 have been amended to change "transformed

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version" to "transformed form" for consistency and to provide proper antecedent basis. Minor typographical and/or antecedent basis errors have been corrected in claims 18, 27, 35-36, and 44-46. No new matter is added by these amendments, and Applicant respectfully submits that no further search or consideration is required by them.

Claims 3, 12, 19, 22, and 30 have been cancelled (claim 1 having previously been canceled).

CONCLUSION

Applicant believes that all pending claims are now allowable and respectfully requests that the Examiner issue a Notice of Allowance. Should the Examiner have further questions or comments, Applicant's undersigned representative may be reached at the number provided below.

Respectfully submitted,
Edward Balassanian

Date: February 10, 2010

/Kenneth M. Kaslow/

Kenneth M. Kaslow
Reg. No. 32,246

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One 1st Street, Suite 9
Los Altos, CA 94022
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To: Patent Examiner Anil Khatri, Art Unit 2191
Company: U. S. Patent and Trademark Office
Fax Number: (571) 273-8300

From: Ken Kaslow, PTO Reg No 32,246

Date: February 10, 2010

Total pages: 14 (including cover sheet)

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Message:

Please see attached Supplemental Amendment submitted in light of interview held on February 3, 2010.

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STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Implicit Networks, Inc.

Application No./Patent No.: 11/241,985

Filed/Issue Date: October 4, 2005

Entitled: Application Server

Implicit Networks, Inc., a corporation
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest
(The extent (by percentage) of its ownership interest is _____ %)

in the patent application/patent identified above by virtue of either:

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy therefore is attached.

OR

- B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: Edward Balassanian To: Becomm Corporation

The document was recorded in the United States Patent and Trademark Office at
Reel 012264, Frame 0008, or for which a copy thereof is attached.

2. From: Becomm Corporation To: Implicit Networks, Inc.

The document was recorded in the United States Patent and Trademark Office at
Reel 015765, Frame 0534, or for which a copy thereof is attached.

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☐ As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Kenneth M. Kaslow/

Signature

February, 2010

Date

Kenneth M. Kaslow, Reg. No. 32,246

Printed or Typed Name

650-305-3050

Telephone Number

Attorney

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(b).

I hereby appoint:

☒ Practitioners associated with the Customer Number:

80641

OR

☐ Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(b).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(b) to:



The address associated with Customer Number:

80641

OR

☐ Firm or Individual Name			
Address			
City	State	Zip	
Country			
Telephone	Email		

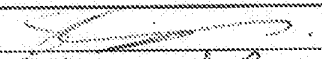
Assignee Name and Address:

Implicit Networks, Inc.
218 Main Street, Suite 408
Kirkland, WA 98039

A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date	2/25/10
Name	Edward Balassanian	Telephone	206-390-1946
Title	President & CEO		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Electronic Acknowledgement Receipt	
EFS ID:	7104370
Application Number:	11241985
International Application Number:	
Confirmation Number:	6573
Title of Invention:	Application server
First Named Inventor/Applicant Name:	Edward Balassanian
Customer Number:	22504
Filer:	Kenneth M. Kaslow
Filer Authorized By:	
Attorney Docket Number:	IMPL-1-1006
Receipt Date:	28-FEB-2010
Filing Date:	04-OCT-2005
Time Stamp:	00:54:53
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	PA1048US_373b.pdf	178765 2568fa0264ba3c7819f3460ebba1ea910b79ebe0	no	2

Warnings:

Information:

2	Power of Attorney	Implicit_Networks_POA.pdf	1326635	no	1
			2c7207c0a478783a5398e02c556b710cd2e8795		
Warnings:					
Information:					
Total Files Size (in bytes):				1505400	
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/241,985	10/04/2005	Edward Balassanian	IMPL-1-1006	6573
22504 7590 03/08/2010 DAVIS WRIGHT TREMAINE, LLP/Seattle 1201 Third Avenue, Suite 2200 SEATTLE, WA 98101-3045			EXAMINER KHATRI, ANIL	
			ART UNIT 2191	PAPER NUMBER
			MAIL DATE 03/08/2010	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Kenneth Kaslow, registration no. 32,246 on 2/17/10.

The application has been amended as follows:

In Claims

Cancel claim 3.

Cancel claim 12.

Cancel claim 19.

Cancel claim 22.

Cancel claim 30.

Claim 2

A method operating on a computer system, having a client computer and a server computer, for managing requests to the server computer, the method comprising:

at the server computer, receiving a request from the client computer, the request identifying an application and identifying a form of the application, the identified form being one of a plurality of available forms; and
in response to receiving the request:

generating the identified form of the application from a source form of the application, wherein generating comprises:

compiling the source form of the application into a compiled form of the application; and

transforming the application into a transformed form of the application, wherein transforming comprises compression of the compiled form of the application; and

sending the transformed form of the application to the client computer.

Claim 9

First line, after transforming insert - - further - -

Claim 10

First line, after transforming insert - - further - -

Claim 11

First line, after transforming insert - - further - -

Claim 13

A method operating on a computer system, having a client computer and a server computer, for managing requests to the server computer, the method comprising:

at the server computer, receiving a request from the client computer, the request identifying an application and identifying a form of the application; and
in response to receiving the request:

compiling the application into a compiled form;
transforming the compiled application into a transformed form of the
compiled form of the application, wherein transforming comprises execution and
compression of the compiled form; and
sending the transformed form of the application to the client computer.

Claim 18

Second line, after application delete - - requested - -

Claim 20

First line, after transforming insert - - further - -

Claim 11

First line, after transforming insert - - further - -

Claim 23

Eighth line, after compiling insert - - and compressing - -

Claim 29

A method operating on a computer system, having a client computer and a server
computer, for managing requests to the server computer, the method comprising:

receiving a request from the client computer, the request identifying an
application and identifying a form of the application; and

the server computer, in response to receiving the request:

compiling a form of the application;

caching the compiled form of the application;

 transforming the compiled form of the application to thereby generate the
identified form of the application, wherein transforming comprises compression
of the compiled form; and

 sending the identified form of the application to the client computer.

Claim 31

First line, after transforming insert - - further - -

Claim 32

First line, after transforming insert - - further - -

Claim 33

First line, after transforming insert - - further - -

Claim 35

First line, after wherein the delete - - identified - -

First line, after wherein the insert - - transformed - -

Claim 36

First line, after wherein the delete - - identified - -

First line, after wherein the insert - - transformed - -

Claim 41

A method operating on a computer system, having a client computer and a
server computer, for managing requests to the server computer, the method comprising:

at the server computer, receiving a request from the client computer, the request identifying an application and identifying a form of the application; and

in response to receiving the request:

generating the identified form of the application from a source form of the application, wherein generating comprises:

compiling the application from the source form into a
compiled form;

transforming the application into a transformed form of the
compiled form of the application, wherein transforming comprises
compression of the compiled form; and

sending the transformed form of the application to the client computer.

Claim 44

A method operating on a computer system, having a client computer and a server computer, for managing requests to the server computer, the method comprising:

receiving a request from the client computer, the request identifying an application and identifying a form of the application; and

the server computer, in response to receiving the request:

compiling a source form of the application ;

caching the compiled form of the application;

transforming the compiled form of the application to thereby generate the identified form of the application, wherein transforming comprises compression of the compiled form;

sending the identified form of the applications to the client computer; and
caching the identified form of the application.

Claim 45

A method operating on a computer system, having a client computer and a server computer, for managing requests to the server computer, the method comprising:

receiving a request from the client computer, the request identifying an application and identifying a form of the application; and

the server computer, in response to receiving the request:

compiling a source form of the application;

caching the compiled form of the application;

transforming the compiled form of the application to thereby generate the identified form of the application, wherein transforming the compiled form comprises compression of the compiled form; and

sending the identified form of the application to the client computer.

Claim 46

A method operating on a computer system, having a client computer and a server computer, for managing requests to the server computer, the method comprising:

receiving a request from the client computer, the request identifying an application and identifying a form of the application; and

the server computer, in response to receiving the request:

- compiling a source form of the application;
- transforming the compiled form of the application to thereby generate the identified form of the application, wherein transforming comprises compression of the compiled form;
- sending the identified form of the application to the client computer; and
- caching the identified form of the application.

Allowable Subject Matter

Claims 2, 4-11, 13-21, 23-29 and 31-46 (renumbered 1-41) are allowed.

The following is an examiner's statement of reasons for allowance:

The cited prior art taken alone or in combination does not fairly suggest the claimed invention of server architecture providing, application caching and security verification. The cited prior art teaches updating and synchronization of information between a client and a server and more specifically, updating and synchronization of information between clients and servers on the world wide web through the use of applets but silent on server computer receiving a request from the client computer, the request identifying an application and identifying a form of the application, the identified form being one of a plurality of available forms and in response to receiving the request generating the identified form of the application from a source form of the application,

wherein generating comprises compiling the source form of the application into a compiled form of the application, transforming the application into a transformed form of the application, wherein transforming comprises compression of the compiled form of the application and sending the transformed form of the application to the client computer. Therefore, it improves on scalable distributed system architecture that provides a mechanism for client computers to request and execute applets in a safe manner without requiring the client machines to have local resources to compile or verify the code and increase overall system performance and efficiency.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anil Khatri whose telephone number is 571-272-3725. The examiner can normally be reached on M-F 8:30-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wei Zhen can be reached on 571-272-3708. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2191

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Anil Khatri/

Primary Examiner, Art Unit 2191

Notice of References Cited	Application/Control No. 11/241,985		Applicant(s)/Patent Under Reexamination BALASSANIAN, EDWARD	
	Examiner Anil Khatri		Art Unit 2191	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-7,346,655	03-2008	Donoho et al.	709/204
*	B	US-7,530,050	05-2009	Mohan et al.	717/100
*	C	US-7,562,346	07-2009	Jhanwar et al.	717/120
*	D	US-7,493,591	02-2009	Charisius et al.	717/100
*	E	US-6,643,683	11-2003	Drumm et al.	709/203
*	F	US-7,127,700	10-2006	Large, Andrew R.	717/100
*	G	US-6,772,408	08-2004	Velonis et al.	717/100
*	H	US-6,279,151	08-2001	Breslau et al.	717/140
*	I	US-7,519,684	04-2009	Backhouse et al.	709/218
*	J	US-6,865,732	03-2005	Morgan, Jeffrey A.	717/140
*	K	US-5,835,712	11-1998	DuFresne, Fred B.	709/203
*	L	US-7,136,896	11-2006	Srinivas et al.	709/203
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
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	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)			
	U	Kang et al, "Query type classification for web documents retrieval", ACM SIGIR, pp 64-71, 2003			
	V	Ahern et al, "Formalising Java RMI with explicit code mobility", ACM OOPSLA, pp 403-422, 2005			
	W	Olshefski et al, "Understanding the management of client perceived response time", ACM SIGMetrics, pp 240-251, 2006			
	X	Mukhtar et al, "A Client Side Measurement Scheme for Request Routing in Virtual Open Content Delivery Networks", IEEE, pp 235-242, 2003			

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Index of Claims 				Application/Control No. 11/241,985		Applicant(s)/Patent under Reexamination BALASSANIAN, EDWARD	
				Examiner Anil Khatri		Art Unit 2191	

✓ Rejected = Allowed	— (Through numeral) Cancelled ÷ Restricted	N Non-Elected I Interference	A Appeal O Objected
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Issue Classification 	Application/Control No. 11/241,985	Applicant(s)/Patent under Reexamination BALASSANIAN, EDWARD
	Examiner Anil Khatri	Art Unit 2191

ISSUE CLASSIFICATION															
ORIGINAL					INTERNATIONAL CLASSIFICATION										
CLASS		SUBCLASS			CLAIMED					NON-CLAIMED					
717		100			G	06	F	9	/44	G	06	F	9	/45	
CROSS REFERENCES									/					/	
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)								/					/	
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										Total Claims Allowed: 41					
(Assistant Examiner) (Date)					/Anil Khatri/					O.G. Print Claim(s) 1				O.G. Print Fig. 1	
(Legal Instruments Examiner) (Date)															

☐ Claims renumbered in the same order as presented by applicant										☐ CPA		☒ T.D.		☐ R.1.47		
Final	Original		Final	Original		Final	Original		Final	Original		Final	Original		Final	Original
	1		32	31			61			121			151			181
1	2		33	32			62			122			152			182
	3		34	33			63			123			153			183
2	4		35	34			64			124			154			184
3	5		10	35			65			125			155			185
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31	29			59			89			149			179			209
	30			60			90			150			180			210

EAST Search History**EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	424	(717/100). CCLS.	USPAT; USOCR	OR	OFF	2010/02/19 10:51
L2	211	(717/101). CCLS.	USPAT; USOCR	OR	OFF	2010/02/19 10:52
L3	133	(717/102). CCLS.	USPAT; USOCR	OR	OFF	2010/02/19 10:52
L4	130	(717/103). CCLS.	USPAT; USOCR	OR	OFF	2010/02/19 10:52
L5	387	(717/120). CCLS.	USPAT; USOCR	OR	OFF	2010/02/19 10:52
L6	284	(717/121). CCLS.	USPAT; USOCR	OR	OFF	2010/02/19 10:52
L7	566	(717/140). CCLS.	USPAT; USOCR	OR	OFF	2010/02/19 10:53
L8	330	(717/141). CCLS.	USPAT; USOCR	OR	OFF	2010/02/19 10:53
L9	6472	(709/203). CCLS.	USPAT; USOCR	OR	OFF	2010/02/19 10:53
L10	1693	(709/204). CCLS.	USPAT; USOCR	OR	OFF	2010/02/19 10:53

2/19/2010 10:53:53 AM



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BIB DATA SHEET

CONFIRMATION NO. 6573

SERIAL NUMBER 11/241,985	FILING or 371(c) DATE 10/04/2005 RULE	CLASS 717	GROUP ART UNIT 2191	ATTORNEY DOCKET NO. IMPL-1-1006		
APPLICANTS Edward Balassanian, Kirkland, WA; ** CONTINUING DATA ***** This application is a CON of 09/968,704 10/01/2001 PAT 6,976,248 which is a CON of 09/040,972 03/18/1998 PAT 6,324,685 ** FOREIGN APPLICATIONS ***** ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED *** SMALL ENTITY ** 10/31/2005						
Foreign Priority claimed ☐ Yes ☒ No 35 USC 119(a-d) conditions met ☐ Yes ☒ No Verified and /ANIL KHATRI/ Acknowledged Examiner's Signature		☐ Met after Allowance Initials	STATE OR COUNTRY WA	SHEETS DRAWINGS 3	TOTAL CLAIMS 1	INDEPENDENT CLAIMS 1
ADDRESS DAVIS WRIGHT TREMAINE, LLP/Seattle 1201 Third Avenue, Suite 2200 SEATTLE, WA 98101-3045 UNITED STATES						
TITLE Application server						
FILING FEE RECEIVED 1700	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:			☐ All Fees		
				☐ 1.16 Fees (Filing)		
				☐ 1.17 Fees (Processing Ext. of time)		
				☐ 1.18 Fees (Issue)		
				☐ Other _____		
			☐ Credit			

Search Notes 	Application/Control No. 11/241,985 Examiner Anil Khatri	Applicant(s)/Patent under Reexamination BALASSANIAN, EDWARD Art Unit 2191
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SEARCHED			
Class	Subclass	Date	Examiner
717	100-103	2/19/2010	AK
717	120-121	2/19/2010	AK
717	140-141	2/19/2010	AK
709	203-204	2/19/2010	AK

INTERFERENCE SEARCHED			
Class	Subclass	Date	Examiner
717	140	2/19/2010	AK
709	203	2/19/2010	AK

SEARCH NOTES (INCLUDING SEARCH STRATEGY)		
	DATE	EXMR
East	2/19/2010	AK
ACM/IEEE	2/19/2010	AK
inventor/DP search 6324685, 6629163,6507349,6907446,6976248, 7391791	2/19/2010	AK



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/241,985	10/04/2005	Edward Balassanian	IMPL-1-1006

80641
Gard and Kaslow LLP
One 1st Street, Suite 9
Los Altos, CA 94022

CONFIRMATION NO. 6573
POA ACCEPTANCE LETTER



Date Mailed: 03/08/2010

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 02/28/2010.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

/atesfai/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/241,985	10/04/2005	Edward Balassanian	IMPL-1-1006

22504
DAVIS WRIGHT TREMAINE, LLP/Seattle
1201 Third Avenue, Suite 2200
SEATTLE, WA 98101-3045

CONFIRMATION NO. 6573
POWER OF ATTORNEY NOTICE



Date Mailed: 03/08/2010

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 02/28/2010.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

/atesfai/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571) 273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

80641 7590 03/08/2010

Gard & Kaslow LLP
 One 1st Street, Suite 9
 Los Altos, CA 94022

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/241,985	10/04/2005	Edward Balassanian	PA1048US	6573

TITLE OF INVENTION:

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
Nonprovisional	No	\$1510	\$300	\$1810	06/08/2010
EXAMINER		ART UNIT	CLASS-SUBCLASS		

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1.. Gard & Kaslow LLP
 2..
 3..

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

Implicit Networks, Inc.

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Kirkland, WA

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. The following fee(s) are enclosed:

- ☒ Issue Fee
- ☒ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _

4b. Payment of Fee(s):

- ☐ A check in the amount of the fee(s) is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☒ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number **50-4658**

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature /Kenneth M. Kaslow/

Date 03/16/2010

Typed or printed name Kenneth M. Kaslow

Registration No. 32,246

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal				
Application Number:		11241985		
Filing Date:		04-Oct-2005		
Title of Invention:		APPLICATION SERVER		
First Named Inventor/Applicant Name:		Edward Balassanian		
Filer:		Kenneth M. Kaslow		
Attorney Docket Number:		PA1048US		
Filed as Large Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Utility Appl issue fee	1501	1	1510	1510
Publ. Fee- early, voluntary, or normal	1504	1	300	300

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1810

Electronic Acknowledgement Receipt	
EFS ID:	7223923
Application Number:	11241985
International Application Number:	
Confirmation Number:	6573
Title of Invention:	APPLICATION SERVER
First Named Inventor/Applicant Name:	Edward Balassanian
Customer Number:	80641
Filer:	Kenneth M. Kaslow
Filer Authorized By:	
Attorney Docket Number:	PA1048US
Receipt Date:	16-MAR-2010
Filing Date:	04-OCT-2005
Time Stamp:	21:28:53
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$1810
RAM confirmation Number	7180
Deposit Account	504658
Authorized User	KASLOW,KENNETH M.

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

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Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment after Notice of Allowance (Rule 312)	PA1048US_Amend_After_Allo w.pdf	1744750	no	13
			41d36f75af7208ac816da5f50780a136087a785		

Warnings:**Information:**

2	Issue Fee Payment (PTO-85B)	PA1048US_Issue_Fee_Trans. pdf	227982	no	2
			26c1d224cbd96ac4ad6d8772f52e2b8fd7a7af99		

Warnings:**Information:**

3	Fee Worksheet (PTO-875)	fee-info.pdf	31825	no	2
			81843f25d8b85e17b2c7252ef18b58971a72baa7		

Warnings:**Information:****Total Files Size (in bytes):**

2004557

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

APPLICANT: Edward Balassanian
SERIAL NO.: 11/241,985
CONF. NO.: 6573
FILING DATE: October 4, 2005
TITLE: Applet Server That Provides Applets in Various Forms
EXAMINER: Khatri, Anil
ART UNIT NO.: 2191
ATTY DKT NO.: PA1048US

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Amendment After Allowance Under 37 CFR 1.312

Sir:

In light of the Notice of Allowability of March 8, 2010, and the telephone interview between the Examiner and Applicant's counsel of February 17, 2010, please amend the pending claims as follows from the form stated in the Notice of Allowability. A **Listing of Claims** begins on page **two**. **Remarks** begin on page **twelve**. The **Conclusion** is on page **thirteen**.

REMARKS

Claims 2, 4-11, 13-18, 20-21, 23-29, and 31-46 are currently pending in this application.

INTERVIEW SUMMARY

As previously noted, a first telephone interview between the Examiner and undersigned counsel was held on February 3, 2010, in which the Examiner made certain suggestions regarding possible claim amendments. In response, Applicant submitted a Supplemental Amendment on February 10, 2010, in which Applicant attempted to implement those suggestions. It is that Supplemental Amendment which was discussed in the interview of February 17, 2010.

With the exception of a minor amendment previously made to claim 27 in the Supplemental Amendment which the Examiner appears not to have noticed, a minor amendment now proposed to claim 44 which Applicant inadvertently failed to make in the Supplemental Amendment, and the typographical error discussed below, the Examiner's Amendment (contained in the Notice of Allowability) is identical to the Supplemental Amendment submitted on February 10, 2010. Accordingly, Applicant believes that the form of the claims herein, which result from the Examiner's Amendment and the minor changes noted herein, is the best representation of the agreement reached between Applicant's counsel and the Examiner in the February 17, 2010, interview.

Applicant thanks the Examiner for his consideration of, and agreement with, the Supplemental Amendment and for the Notice of Allowability.

CLAIM AMENDMENTS

In the Examiner's Amendment contained in the Notice of Allowability, the Examiner appears to have inadvertently missed the amendment to dependent

claim 27 made in the February 10, 2010, Supplemental Amendment (deletion of "all of" a web page), which is again presented above.

Applicant wishes to change "applications" to "application" in claim 44 to be consistent and provide proper antecedent basis. This change has previously been made to other claims, but was inadvertently missed in claim 44 by Applicant when the Supplemental Amendment was submitted. Counsel for Applicant apologizes for any inconvenience.

Applicant also wishes to note that on page 5 of the Notice of Allowability there is an apparent typographical error in which the Examiner refers to an amendment of claim 11; Applicant believes that this should refer to claim 21 rather than claim 11 and was clearly so intended given the context.

CONCLUSION

Applicant believes that the above-discussed prior amendment to claim 27 and current amendment to claim 44 are consistent with the Notice of Allowance. Should the Examiner have further questions or comments, Applicant's undersigned representative may be reached at the number provided below.

Respectfully submitted,
Edward Balassanian

Date: March 16, 2010

/Kenneth M. Kaslow/

Kenneth M. Kaslow
Reg. No. 32,246

Gard & Kaslow *LLP*
One 1st Street, Suite 9
Los Altos, CA 94022
Phone (650) 305-3050
Fax (650) 305-3055

LISTING OF CLAIMS

Please amend the claims as follows:

1. (Canceled)
2. (Previously presented) A method operating on a computer system, having a client computer and a server computer, for managing requests to the server computer, the method comprising:
 - at the server computer, receiving a request from the client computer, the request identifying an application and identifying a form of the application, the identified form being one of a plurality of available forms; and
 - in response to receiving the request:
 - generating the identified form of the application from a source form of the application, wherein generating comprises:
 - compiling the source form of the application into a compiled form of the application; and
 - transforming the application into a transformed form of the application, wherein transforming comprises compression of the compiled form of the application; and
 - sending the transformed form of the application to the client computer.
3. (Canceled)
4. (Previously presented) The method of claim 2 wherein the identified form of the application is specified using a Universal Resource Locator.

5. (Previously presented) The method of claim 2 wherein the identified form of the application is specified using a cookie.
6. (Previously presented) The method of claim 2 wherein the identified form of the application is specified in an HTTP header.
7. (Previously presented) The method of claim 2 wherein the transformed form of the application is a web page.
8. (Previously presented) The method of claim 2 wherein the transformed form of the application is a portion of a web page.
9. (Previously presented) The method of claim 2 wherein transforming further comprises execution of the generated form.
10. (Previously presented) The method of claim 2 wherein transforming further comprises verification of the generated form.
11. (Previously presented) The method of claim 2 wherein transforming further comprises optimization of the generated form.
12. (Canceled)
13. (Previously presented) A method operating on a computer system, having a client computer and a server computer, for managing requests to the server computer, the method comprising:

at the server computer, receiving a request from the client computer, the request identifying an application and identifying a form of the application; and

in response to receiving the request:

compiling the application into a compiled form;

transforming the compiled application into a transformed form of the compiled form of the application, wherein transforming comprises execution and compression of the compiled form; and

sending the transformed form of the application to the client computer.

14. (Previously presented) The method of claim 13 wherein the identified form of the application is specified using a Universal Resource Locator.

15. (Previously presented) The method of claim 13 wherein the identified form of the application is specified using a cookie.

16. (Previously presented) The method of claim 13 wherein the identified form of the application is specified in a HTTP header.

17. (Previously presented) The method of claim 13 wherein the identified form of the application is a web page.

18. (Previously presented) The method of claim 13 wherein the identified form of the application is a portion of a web page.

19. (Canceled)

20. (Previously presented) The method of claim 13 wherein transforming further comprises verification of the compiled form.
21. (Previously presented) The method of claim 13 wherein transforming further comprises optimization of the compiled form.
22. (Canceled)
23. (Previously presented) A method operating on a computer system, having a client computer and a server computer, for generating an application in response to a request by the client computer wherein each request for an application specifies one form of the application out of a plurality of forms of the application, comprising:
 - receiving on the server computer a request from the client computer for an application in a specified form from a plurality of available forms;
 - compiling and compressing the application to thereby generate the specified form; and
 - transmitting the generated application in the specified form to the client computer.
24. (Previously presented) The method of claim 23 wherein the specified form of the application is specified using a Universal Resource Locator.
25. (Previously presented) The method of claim 23 wherein the specified form of the application is specified using a cookie.

26. (Previously presented) The method of claim 23 wherein the specified form of the application is specified in a HTTP header.

27. (Currently amended) The method of claim 23 wherein the specified form of the application requested is ~~all of~~ a web page.

28. (Previously presented) The method of claim 23 wherein the specified form of the application requested is a portion of a web page.

29. (Previously presented) A method operating on a computer system, having a client computer and a server computer, for managing requests to the server computer, the method comprising:

receiving a request from the client computer, the request identifying an application and identifying a form of the application; and

the server computer, in response to receiving the request:

compiling a form of the application;

caching the compiled form of the application;

transforming the compiled form of the application to thereby generate the identified form of the application, wherein transforming comprises compression of the compiled form; and

sending the identified form of the application to the client computer.

30. (Canceled)

31. (Previously presented) The method of claim 29 wherein transforming further comprises execution of the compiled form.

32. (Previously presented) The method of claim 29 wherein transforming further comprises verification of the compiled form.
33. (Previously presented) The method of claim 29 wherein transforming further comprises optimization of the compiled form.
34. (Previously presented) The method of claim 29 wherein caching the compiled form of the application comprises storing the compiled form of the application in local memory.
35. (Previously presented) The method of claim 2 wherein the transformed form of the application is sent to the client computer in an HTTP response.
36. (Previously presented) The method of claim 13 wherein the transformed form of the application is sent to the client computer in an HTTP response.
37. (Previously presented) The method of claim 13, further comprising:
storing a plurality of available forms of the application;
the server, in response to receiving the request, determining if the identified form of the application is one of the stored plurality of available forms of the application; and
if the identified form of the application is one of the stored plurality of available forms, sending the identified form of the application to the client computer without compiling and transforming.
38. (Previously presented) The method of claim 13, further comprising:

storing a plurality of available forms of the application;
the server, in response to receiving the request, determining if the identified form of the application is one of the stored plurality of available forms of the application; and

if the identified form of the application is one of the stored plurality of available forms, sending the identified form of the application to the client computer without compiling.

39. (Previously presented) The method of claim 23 wherein the specified form of the application is transmitted to the client computer in an HTTP response.

40. (Previously presented) The method of claim 23 wherein the specified form of the application is sent to the client computer in an HTTP Response.

41. (Previously presented) A method operating on a computer system, having a client computer and a server computer, for managing requests to the server computer, the method comprising:

at the server computer, receiving a request from the client computer, the request identifying an application and identifying a form of the application; and
in response to receiving the request:

generating the identified form of the application from a source form of the application, wherein generating comprises:

compiling the application from the source form into a compiled form;

transforming the application into a transformed form of the compiled form of the application, wherein

transforming comprises compression of the compiled form;
and
sending the transformed form of the application to the client
computer.

42. (Previously presented) The method of claim 41, further comprising:
storing a plurality of available forms of the application;
the server, in response to receiving the request, determining if the
identified form of the application is one of the stored plurality of available forms
of the application; and
if the identified form of the application is one of the stored plurality of
available forms, sending the identified form of the application to the client
computer without generating and transforming.

43. (Previously presented) The method of claim 41, further comprising:
storing a plurality of available forms of the application;
the server, in response to receiving the request, determining if the
identified form of the application is one of the stored plurality of available forms
of the application; and
if the identified form of the application is one of the stored plurality of
available forms, sending the identified form of the application to the client
computer without generating.

44. (Currently amended) A method operating on a computer system, having a
client computer and a server computer, for managing requests to the server
computer, the method comprising:

receiving a request from the client computer, the request identifying an application and identifying a form of the application; and

the server computer, in response to receiving the request:

compiling a source form of the application ;

caching the compiled form of the application;

transforming the compiled form of the application to thereby generate the identified form of the application, wherein transforming comprises compression of the compiled form;

sending the identified form of the ~~applications~~ application to the client computer; and

caching the identified form of the application.

45. (Previously presented) A method operating on a computer system, having a client computer and a server computer, for managing requests to the server computer, the method comprising:

receiving a request from the client computer, the request identifying an application and identifying a form of the application; and

the server computer, in response to receiving the request:

compiling a source form of the application;

caching the compiled form of the application;

transforming the compiled form of the application to thereby generate the identified form of the application, wherein transforming the compiled form comprises compression of the compiled form; and

sending the identified form of the application to the client computer.

46. (Previously presented) A method operating on a computer system, having a client computer and a server computer, for managing requests to the server computer, the method comprising:

- receiving a request from the client computer, the request identifying an application and identifying a form of the application; and

- the server computer, in response to receiving the request:

- compiling a source form of the application;

- transforming the compiled form of the application to thereby generate the identified form of the application, wherein transforming comprises compression of the compiled form;

- sending the identified form of the application to the client computer; and

- caching the identified form of the application.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

80641 7590 03/17/2010
Gard and Kaslow LLP
One 1st Street, Suite 9
Los Altos, CA 94022

EXAMINER	
KHATRI, ANIL	
ART UNIT	PAPER NUMBER
2191	

DATE MAILED: 03/17/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/241,985	10/04/2005	Edward Balassanian	PA1048US	6573
TITLE OF INVENTION: APPLICATION SERVER				

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	06/17/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

80641 7590 03/17/2010

Gard and Kaslow LLP
One 1st Street, Suite 9
Los Altos, CA 94022

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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11/241,985	10/04/2005	Edward Balassanian	PA1048US	6573
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TITLE OF INVENTION: APPLICATION SERVER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	06/17/2010

EXAMINER	ART UNIT	CLASS-SUBCLASS
KHATRI, ANIL	2191	717-100000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address Form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
- 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (**Please first reapply any previously paid issue fee shown above**)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/241,985	10/04/2005	Edward Balassanian	PA1048US	6573
80641	7590	03/17/2010	EXAMINER	
Gard and Kaslow LLP One 1st Street, Suite 9 Los Altos, CA 94022			KHATRI, ANIL	
			ART UNIT	PAPER NUMBER
			2191	
DATE MAILED: 03/17/2010				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 847 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 847 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

Continuation of Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: The examiner and attorney discussed limitations of the claim language, double patenting issue and the examiner suggested a proposed amendment "compiling the source form of the application into a compiled form of the application; and transforming the application into a transformed generated form of the application, wherein transforming compression of the compiled form of the application and sending the transformed form of the application to the client computer and generating compiling the application from the source form" to clarify the invention and to patentably distinguish from the prior art of the record. Applicant's representative agreed with the suggested proposal. If such amendment is made further search would be required and further see the details in the examiner amendment.

IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

APPLICANT: Edward Balassanian
SERIAL NO.: 11/241,985
CONF. NO.: 6573
FILING DATE: October 4, 2005
TITLE: Applet Server That Provides Applets in Various Forms
EXAMINER: Khatri, Anil
ART UNIT NO.: 2191
ATTY DKT NO.: PA1048US

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Notice of Change in Status

Sir:

Pursuant to 37 CFR § 1.27(g)(2) and MPEP 509.03, this will confirm that Implicit Networks, Inc., the Assignee of the present application, no longer claims small entity status in the above-referenced application. The Issue Fee was paid on March 16, 2010, in the correct amount for a large entity, but box 5.b., which would reflect the change in status, was inadvertently not checked.

11/241,985

Respectfully submitted,
Edward Balassanian

Date: March 18, 2010

/Kenneth M. Kaslow/

Kenneth M. Kaslow

Reg. No. 32,246

Gard & Kaslow *LLP*

One 1st Street, Suite 9

Los Altos, CA 94022

Phone (650) 305-3050

Fax (650) 305-3055

Electronic Acknowledgement Receipt	
EFS ID:	7241874
Application Number:	11241985
International Application Number:	
Confirmation Number:	6573
Title of Invention:	APPLICATION SERVER
First Named Inventor/Applicant Name:	Edward Balassanian
Customer Number:	80641
Filer:	Kenneth M. Kaslow
Filer Authorized By:	
Attorney Docket Number:	PA1048US
Receipt Date:	18-MAR-2010
Filing Date:	04-OCT-2005
Time Stamp:	20:48:13
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
------------------------	----

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	PA1048US_Change_Status.pdf	140726 674ae42c67b6070acebbd8e459eee721b3dcea60	no	2

Warnings:

Information:

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.



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Bib Data Sheet

CONFIRMATION NO. 6573

SERIAL NUMBER 11/241,985	FILING OR 371(c) DATE 10/04/2005 RULE	CLASS 717	GROUP ART UNIT 2191	ATTORNEY DOCKET NO. PA1048US	
APPLICANTS Edward Balassanian, Kirkland, WA; ** CONTINUING DATA ***** This application is a CON of 09/968,704 10/01/2001 PAT 6,976,248 which is a CON of 09/040,972 03/18/1998 PAT 6,324,685 ** FOREIGN APPLICATIONS ***** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** 10/31/2005					
Foreign Priority claimed ☐ yes ☐ no 35 USC 119 (a-d) conditions ☐ yes ☐ no ☐ Met after met Allowance Verified and Acknowledged _____ Examiner's Signature Initials		STATE OR COUNTRY WA	SHEETS DRAWING 3	TOTAL CLAIMS 1	INDEPENDENT CLAIMS 1
ADDRESS 80641					
TITLE APPLICATION SERVER					
FILING FEE RECEIVED 2000	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:		☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit		

Supplemental Notice of Allowability	Application No.	Applicant(s)	
	11/241,985	BALASSANIAN, EDWARD	
	Examiner	Art Unit	
	Anil Khatri	2191	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 1/29/10.

2. ☒ The allowed claim(s) is/are 2,4-11, 13-14, 16-18, 20-21,23-29, 31-46.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____ 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal Patent Application 6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ 7. ☐ Examiner's Amendment/Comment 8. ☐ Examiner's Statement of Reasons for Allowance 9. ☐ Other _____.
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/Anil Khatri/ Primary Examiner, Art Unit 2191	
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Issue Classification 	Application/Control No. 11/241,985	Applicant(s)/Patent under Reexamination BALASSANIAN, EDWARD
	Examiner Anil Khatri	Art Unit 2191

ISSUE CLASSIFICATION															
ORIGINAL					INTERNATIONAL CLASSIFICATION										
CLASS		SUBCLASS			CLAIMED					NON-CLAIMED					
717		100			G	06	F	9	/44	G	06	F	9	/45	
CROSS REFERENCES									/					/	
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)								/					/	
717	140								/					/	
709	203								/					/	
									/					/	
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									/					/	
										Total Claims Allowed: 39					
(Assistant Examiner) (Date)					/Anil Khatri/					O.G. Print Claim(s) 1				O.G. Print Fig. 1	
(Legal Instruments Examiner) (Date)															

☐ Claims renumbered in the same order as presented by applicant										☐ CPA		☒ T.D.		☐ R.1.47	
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
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	3	32	33		63		93		123		153		183		
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Index of Claims 		Application/Control No. 11/241,985 Examiner Anil Khatri		Applicant(s)/Patent under Reexamination BALASSANIAN, EDWARD Art Unit 2191	
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Index of Claims 		Application/Control No. 11/241,985 Examiner Anil Khatri		Applicant(s)/Patent under Reexamination BALASSANIAN, EDWARD Art Unit 2191	
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$\checkmark$ Rejected = Allowed	$-$ (Through numeral) Cancelled $\div$ Restricted	N Non-Elected I Interference	A Appeal O Objected
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Issue Classification 	Application/Control No. 11/241,985	Applicant(s)/Patent under Reexamination BALASSANIAN, EDWARD
	Examiner Anil Khatri	Art Unit 2191

ISSUE CLASSIFICATION														
ORIGINAL					INTERNATIONAL CLASSIFICATION									
CLASS		SUBCLASS			CLAIMED					NON-CLAIMED				
717		100			G	06	F	9	/44	G	06	F	9	/45
CROSS REFERENCES									/					/
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)								/					/
717	140								/					/
717	203								/					/
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										Total Claims Allowed: 40				
(Assistant Examiner) (Date)					/Anil Khatri/					O.G. Print Claim(s)				O.G. Print Fig.
(Legal Instruments Examiner) (Date)										1				1

☐ Claims renumbered in the same order as presented by applicant										☐ CPA		☒ T.D.		☐ R.1.47		
Final	Original		Final	Original		Final	Original		Final	Original		Final	Original		Final	Original
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UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/241,985	08/10/2010	7774740	PA1048US	6573

80641 7590 07/21/2010
Gard and Kaslow LLP
4 Main Street, Suite 120
Los Altos, CA 94022

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment is 1136 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

Edward Balassanian, Kirkland, WA;

AO 120 (Rev. 2/99)

TO: Mail Stop 8 Director of the U.S. Patent & Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
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In Compliance with 35 § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been
filed in the U.S. District Court Northern District California on the ☒ Patents or ☐ Trademarks:

DOCKET NO. CV 10-03746 JCS	DATE FILED 8/23/2010	U.S. DISTRICT COURT 450 Golden Gate Avenue, 16 th Floor, San Francisco CA 94102
PLAINTIFF IMPLICIT NETWORKS INC		DEFENDANT HEWLETT-PACKARD COMPANY
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 6629163		***See Attach Complaint***
2 6324685		
3 6976248		
4 7774740		
5		

In the above—entitled case, the following patent(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading		
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK	
1			
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In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK Richard W. Wieking	(BY) DEPUTY CLERK Gina Agustine-Rivas	DATE August 24, 2010
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Copy 1—Upon initiation of action, mail this copy to Commissioner Copy 3—Upon termination of action, mail this copy to Commissioner
Copy 2—Upon filing document adding patent(s), mail this copy to Commissioner Copy 4—Case file copy

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(b).

I hereby appoint:



Practitioners associated with the Customer Number:

55959

OR



Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(b).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(b) to:



The address associated with Customer Number:

55959

OR

☐ Firm or Individual Name			
Address			
City	State	Zip	
Country			
Telephone			Email

Assignee Name and Address:

Implicit Networks
218 Main Street, Suite 494
Kirkland, WA 98033

A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date	May 19, 2011
Name	Edward Balassanian	Telephone	206-390-1946
Title	President & CEO		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Implicit Networks, Inc.

Application No./Patent No.: 11/241,985

Filed/Issue Date: October 4, 2005

Titled: APPLICATION SERVER

Implicit Networks, Inc., a corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest in;
2. ☐ an assignee of less than the entire right, title, and interest in
(The extent (by percentage) of its ownership interest is _____ %); or
3. ☐ the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made)

the patent application/patent identified above, by virtue of either:

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy therefore is attached.

OR

- B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: Edward Balassanian To: Becomm Corporation

The document was recorded in the United States Patent and Trademark Office at
Reel 012264, Frame 0008, or for which a copy thereof is attached.

2. From: Becomm Corporation To: Implicit Networks, Inc.

The document was recorded in the United States Patent and Trademark Office at
Reel 015765, Frame 0534, or for which a copy thereof is attached.

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☐ As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Randall Moeller/

May 20, 2011

Signature

Date

Randall Moeller, Reg. No. 39,776

Attorney

Printed or Typed Name

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt	
EFS ID:	10140350
Application Number:	11241985
International Application Number:	
Confirmation Number:	6573
Title of Invention:	APPLICATION SERVER
First Named Inventor/Applicant Name:	Edward Balassanian
Customer Number:	80641
Filer:	Randall H. Moeller/Michael Spain
Filer Authorized By:	Randall H. Moeller
Attorney Docket Number:	PA1048US
Receipt Date:	20-MAY-2011
Filing Date:	04-OCT-2005
Time Stamp:	17:56:55
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	POA_11241985.pdf	398700 5617bf09f3b7e325880239bcd9149fe0efe1ca45	no	4

Warnings:

Information:

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/241,985	10/04/2005	Edward Balassanian	PA1048US

CONFIRMATION NO. 6573

POA ACCEPTANCE LETTER



55959
NEWMAN & NEWMAN, ATTORNEYS AT LAW, LLP
505 FIFTH AVENUE SOUTH
SUITE 610
SEATTLE, WA 98104

Date Mailed: 05/27/2011

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 05/20/2011.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

/s/ibrahim/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/241,985	10/04/2005	Edward Balassanian	PA1048US

80641
Gard and Kaslow LLP
4 Main Street, Suite 120
Los Altos, CA 94022

CONFIRMATION NO. 6573
POWER OF ATTORNEY NOTICE



OC000000047903132

Date Mailed: 05/27/2011

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 05/20/2011.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

/sibrahim/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B or equivalent) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5. If the Power of Attorney by Applicant form is not accompanied by this transmittal form or an equivalent, the Power of Attorney will not be recognized in the application.

Application Number	11/241,985
Filing Date	10-04-2005
First Named Inventor	Edward Balassanian
Title	APPLICATION SERVER
Art Unit	2191
Examiner Name	KHATRI, ANIL
Attorney Docket Number	6743-00302

SIGNATURE of Applicant or Patent Practitioner

Signature	/Dean M. Munyon/	Date	2013-04-04
Name	Dean M. Munyon	Telephone	512-853-8800
Registration Number	42914		

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications.

☐ *Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in the attached transmittal letter.

- ☒ I hereby appoint Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A or equivalent):

35690

OR

- ☐ I hereby appoint Practitioner(s) named below as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A or equivalent):

Name	Registration Number	Name	Registration Number

Please recognize or change the correspondence address for the application identified in the attached transmittal letter to:

- ☒ The address associated with the above-mentioned Customer Number.

OR

- ☐ The address associated with Customer Number:

OR

☐ Firm or Individual Name

Address

City

State

Zip

Country

Telephone

Email

I am the Applicant:

- ☐ Inventor or Joint Inventor
- ☐ Legal Representative of a Deceased or Legally Incapacitated Inventor
- ☒ Assignee or Person to Whom the Inventor is Under an Obligation to Assign
- ☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document)

SIGNATURE of Applicant for Patent

Signature		Date	3/29/13
Name	Edward Balassanian	Telephone	
Title and Company	President & CEO, Implicit Networks, Inc.		

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms for more than one signature, see below *.

- ☐ *Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Electronic Acknowledgement Receipt	
EFS ID:	15436056
Application Number:	11241985
International Application Number:	
Confirmation Number:	6573
Title of Invention:	APPLICATION SERVER
First Named Inventor/Applicant Name:	Edward Balassanian
Customer Number:	55959
Filer:	Dean M. Munyon/Danielle Kramer
Filer Authorized By:	Dean M. Munyon
Attorney Docket Number:	PA1048US
Receipt Date:	04-APR-2013
Filing Date:	04-OCT-2005
Time Stamp:	16:13:53
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	POA.pdf	69793	no	3
			882527561bb522cd0de57d59d37f2da034b9b28d		

Warnings:

Information:

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

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National Stage of an International Application under 35 U.S.C. 371

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UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/241,985	10/04/2005	Edward Balassanian	PA1048US

35690
MEYERTONS, HOOD, KIVLIN, KOWERT & GOETZEL, P.C.
P.O. BOX 398
AUSTIN, TX 78767-0398

CONFIRMATION NO. 6573
POA ACCEPTANCE LETTER



Date Mailed: 04/29/2013

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 04/28/2013.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

/dolipscomb/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/241,985	10/04/2005	Edward Balassanian	PA1048US

55959
Newman Du Wors LLP
1201 Third Avenue, Suite 1600
SEATTLE, WA 98101

CONFIRMATION NO. 6573
POWER OF ATTORNEY NOTICE



Date Mailed: 04/29/2013

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 04/28/2013.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

/dolipscomb/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	PATENT NUMBER	GROUP ART UNIT	FILE WRAPPER LOCATION
11/241,985	7774740	2191	9200



Correspondence Address/Fee Address Change

The following fields have been set to Customer Number 126601 on 09/15/2014

- Correspondence Address
- Maintenance Fee Address

The address of record for Customer Number 126601 is:

126601
MHKKG (Implicit/BeLabs)
P.O. Box 398
Austin, TX 78767-0398

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court _____ for the Western District of Texas _____ on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 6:22-cv-364	DATE FILED 4/11/2022	U.S. DISTRICT COURT for the Western District of Texas
PLAINTIFF IMPLICIT, LLC		DEFENDANT SALESFORCE.COM, LLC
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 US 7,774,740	8/10/2010	Implicit, LLC
2 US 8,056,075	11/8/2011	Implicit, LLC
3 US 6,976,248	12/13/2005	Implicit, LLC
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT		
CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court _____ for the Western District of Texas _____ on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 6:22-cv-686	DATE FILED 6/27/2022	U.S. DISTRICT COURT for the Western District of Texas
PLAINTIFF IMPLICIT, LLC		DEFENDANT PayPal Holdings, Inc; PayPal, Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 US 7,774,740	8/10/2010	Implicit, LLC
2 US 8,056,075	11/8/2011	Implicit, LLC
3 US 6,976,248	12/13/2005	Implicit, LLC
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT		
CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy