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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR § 1.53(h))

Attorney Docket No. 1719.0050002
First Inventor or Application Identifier Jeffrey J. ROTHCHILD
Title Server-Group Messaging System for Interactive Applications
Express Mail Label No.

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents

ADDRESS TO:

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- ☐ * Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original, and a duplicate for fee processing)
- ☒ Specification [Total Pages 60]
(preferred arrangement set forth below)
 - Descriptive title of the Invention
 - Cross References to Related Applications
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
- ☒ Drawings (35 U.S.C. 113) [Total Sheets 11]
- ☐ Oath or Declaration [Total Pages]
 - ☐ Newly executed (original or copy)
 - ☐ Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 17 completed)
[Note Box 5 below]
 - ☐ DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR §§ 1.63(d)(2) and 1.33(b).
- ☐ Incorporation By Reference (useable if Box 4b is checked)
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

- ☐ Microfiche Computer Program (Appendix)
- Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
 - ☐ Computer Readable Copy
 - ☐ Paper Copy (identical to computer copy)
 - ☐ Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

- ☐ Assignment Papers (cover sheet & document(s))
- ☐ 37 CFR 3.73(b) Statement [] Power of Attorney
(when there is an assignee)
- ☐ English Translation Document (if applicable)
- ☐ Information Disclosure Statement (IDS)/PTO-1449 [] Copies of IDS Citations
- ☐ Preliminary Amendment
- ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
- ☐ *Small Entity Statement(s) [] Statement filed in prior
(PTO/SB/09-12) application, Status still proper
and desired
- ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)
- ☒ Other: 37 C.F.R. § 1.136(a)(3) Authorization
☐ Other

*NOTE FOR ITEMS 1 & 14 IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27). EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28)

17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment

☒ Continuation ☐ Divisional ☐ Continuation-in-Part (CIP) of prior application No: 08/896,797

Prior application information: Examiner Zarni Maung Group/Art Unit: 2758

18. CORRESPONDENCE ADDRESS

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September 28, 1999

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Assistant Commissioner for Patents
Washington, D.C. 20231

Box Patent Application

Re: U.S. Continuation Utility Patent Application under 37 C.F.R. § 1.53(b)
(Based on Appl. No. 08/896,797; Filed: July 18, 1997)
Appl. No. To be assigned; Filed: September 28, 1999
For: **Server-Group Messaging System for Interactive Applications**
Inventors: Jeffrey J. ROTHSCCHILD, Daniel J. SAMUEL and
Marc P. KWIATKOWSKI
Our Ref: 1719.0050002

Sir:

The following documents are forwarded herewith for appropriate action by the U.S.
Patent and Trademark Office:

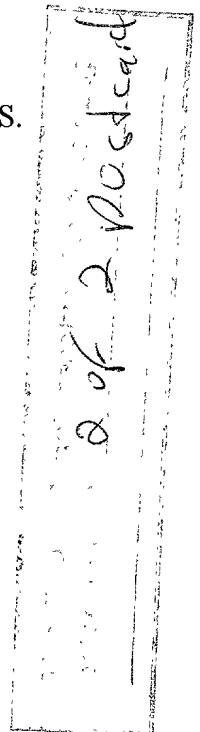
1. PTO Utility Patent Application Transmittal Form (PTO/SB/05);
2. U.S. Utility Patent Application entitled:

Server-Group Messaging System for Interactive Applications

and naming as inventors:

**Jeffrey J. ROTHSCCHILD, Daniel J. SAMUEL and
Marc P. KWIATKOWSKI**

the application consisting of:



Assistant Commissioner for Patents

September 28, 1999

Page 2

- a. A specification containing:
 - (i) 55 pages of description prior to the claims;
 - (ii) 4 pages of claims (16 claims);
 - (iii) a one (1) page abstract;
- b. Eleven (11) sheets of drawings: (Figures 1-11);
3. USPTO Utility Patent Application Transmittal Form PTO/SB/05;
4. 37 C.F.R. § 1.136(a)(3) Authorization to Treat a Reply As Incorporating An Extension of Time (in duplicate); and
5. Two (2) return postcards.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible.

This application claims priority to U.S. Application No. 08/896,797, filed July 18, 1997, now allowed, which is a continuation of U.S. Application No. 08/595,323, filed, February 1, 1996, now U.S. Patent No. 5,822,523.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036. A duplicate copy of this letter is enclosed.

This patent application is being submitted under 37 C.F.R. § 1.53(b) without Declaration and without filing fee.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Raymond Millien
Attorney for Applicants
Registration No. 43,806

0050002.pto

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Donna L. Hengst
Donna L. Hengst

PATENT
Attorney Docket No. 16326-701

**SERVER-GROUP MESSAGING SYSTEM
FOR INTERACTIVE APPLICATIONS**

**Inventors: Daniel Joseph Samuel
Marc Peter Kwiatkowski
Jeffrey Jackiel Rothschild**

FIELD OF THE INVENTION

The present invention relates to computer network systems, and particularly to server group messaging systems and methods for reducing message rate and latency.

Background of the Invention

There are a wide range of interactive applications implemented on computer systems today. All are characterized by dynamic response to the user. The user provides input to the computer and the application responds quickly. One popular example of interactive applications on personal computers (PCs) are games. In this case, rapid response to the user may mean redrawing the screen with a new picture in between 30ms and 100ms. Interactive applications such as games control the speed of their interaction with the user through an internal time base. The application uses this time base to derive rates at which the user input is sampled, the screen is redrawn and sound is played.

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