

```

import System.Security.Cryptography.*;

public class HMACSHA1Example
{
    // Computes a keyed hash for a source file, creates a target file with the
    // keyed hash prepended to the contents of the source file, then decrypts
    // the file and compares the source and the decrypted files.
    public static void EncodeFile(ubyte key[], String sourceFile,
        String destFile)
    {
        // Initialize the keyed hash object.
        HMACSHA1 myhmacsha1 = new HMACSHA1(key);
        FileStream inStream = new FileStream(sourceFile, FileMode.Open);
        FileStream outStream = new FileStream(destFile, FileMode.Create);

        // Compute the hash of the input file.
        ubyte hashValue[] = myhmacsha1.ComputeHash(inStream);

        // Reset inStream to the beginning of the file.
        inStream.Set_Position(0);

        // Write the computed hash value to the output file.
        outStream.Write(hashValue, 0, hashValue.Length);

        // Copy the contents of the sourceFile to the destFile.
        int bytesRead;

        // read 1K at a time
        ubyte buffer[] = new ubyte[1024];
        do {
            // Read from the wrapping CryptoStream.
            bytesRead = inStream.Read(buffer, 0, 1024);
            outStream.Write(buffer, 0, bytesRead);
        } while (bytesRead > 0);
        myhmacsha1.Clear();

        // Close the streams
        inStream.Close();
        outStream.Close();
        return;
    } // end EncodeFile

    // Decrypt the encoded file and compare to original file.
    public static boolean DecodeFile(ubyte key[], String sourceFile)
    {
        // Initialize the keyed hash object.
        HMACSHA1 hmacsha1 = new HMACSHA1(key);

        // Create an array to hold the keyed hash value read from the file.
        ubyte storedHash[] = new ubyte[hmacsha1.get_HashSize() / 8];

        // Create a FileStream for the source file.
        FileStream inStream = new FileStream(sourceFile, FileMode.Open);

        // Read in the storedHash.
        inStream.Read(storedHash, 0, storedHash.Length);

        // Compute the hash of the remaining contents of the file.
        // The stream is properly positioned at the beginning of the content,
        // immediately after the stored hash value.
        ubyte computedHash[] = hmacsha1.ComputeHash(inStream);

        // compare the computed hash with the stored value
        for (int i = 0; i < storedHash.Length; i++) {
            if (computedHash.get_Item(i) != storedHash.get_Item(i)) {
                Console.WriteLine("Hash values differ! Encoded file has been "
                    + "tampered with!");
                return false;
            }
        }
        Console.WriteLine("Hash values agree -- no tampering occurred.");
        return true;
    } //DecodeFile //end DecodeFile

    private static String usageText = "Usage: HMACSHA1 inputfile.txt "
        + "encryptedfile.hsh\nYou must specify the two file names. Only "
        + "the first file must exist.\n";

    public static void main(String[] fileargs)

```

```

{
    //If no file names are specified, write usage text.
    if (fileargs.length < 2) {
        Console.WriteLine(usageText);
    }
    else {
        try {
            // Create a random key using a random number generator. This
            // would be the secret key shared by sender and receiver.
            ubyte secretKey[] = new ubyte[64];

            // RNGCryptoServiceProvider is an implementation of a random
            // number generator.
            RNGCryptoServiceProvider rng = new RNGCryptoServiceProvider();

            // The array is now filled with cryptographically strong
            // random bytes.
            rng.GetBytes(secretKey);

            // Use the secret key to encode the message file.
            EncodeFile(secretKey, fileargs[0], fileargs[1]);

            // Take the encoded file and decode
            DecodeFile(secretKey, fileargs[1]);
        }
        catch (IOException e) {
            Console.WriteLine("Error: File not found", e);
        }
    } //end if-else
} //end main
} //end class HMACSHA1Example

```

#### ☐ Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/system.object.aspx) [ <http://msdn2.microsoft.com/en-us/library/system.object.aspx> ]  
     [System.Security.Cryptography.HashAlgorithm](http://msdn2.microsoft.com/en-us/library/system.security.cryptography.hashalgorithm.aspx) [ <http://msdn2.microsoft.com/en-us/library/system.security.cryptography.hashalgorithm.aspx> ]  
         [System.Security.Cryptography.KeyedHashAlgorithm](http://msdn2.microsoft.com/en-us/library/system.security.cryptography.keyedhashalgorithm.aspx) [ <http://msdn2.microsoft.com/en-us/library/system.security.cryptography.keyedhashalgorithm.aspx> ]  
             [System.Security.Cryptography.HMAC](http://msdn2.microsoft.com/en-us/library/system.security.cryptography.hmac.aspx) [ <http://msdn2.microsoft.com/en-us/library/system.security.cryptography.hmac.aspx> ]  
                 **System.Security.Cryptography.HMACSHA1**

#### ☐ Thread Safety

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.

#### ☐ Platforms

Windows 98, Windows 2000 SP4, Windows Millennium Edition, Windows Server 2003, Windows XP Media Center Edition, Windows XP Professional x64 Edition, Windows XP SP2, Windows XP Starter Edition

The .NET Framework does not support all versions of every platform. For a list of the supported versions, see [System Requirements](http://msdn2.microsoft.com/en-us/library/8z6watww.aspx) [ <http://msdn2.microsoft.com/en-us/library/8z6watww.aspx> ].

#### ☐ Version Information

##### **.NET Framework**

Supported in: 2.0, 1.1, 1.0

#### ☐ See Also

##### **Reference**

[HMACSHA1 Members](http://msdn2.microsoft.com/en-us/library/system.security.cryptography.hmacsha1_members.aspx) [ [http://msdn2.microsoft.com/en-us/library/system.security.cryptography.hmacsha1\\_members.aspx](http://msdn2.microsoft.com/en-us/library/system.security.cryptography.hmacsha1_members.aspx) ]

[System.Security.Cryptography Namespace](http://msdn2.microsoft.com/en-us/library/system.security.cryptography.aspx) [ <http://msdn2.microsoft.com/en-us/library/system.security.cryptography.aspx> ]

##### **Other Resources**

[Cryptographic Services](http://msdn2.microsoft.com/en-us/library/93bskf9z.aspx) [ <http://msdn2.microsoft.com/en-us/library/93bskf9z.aspx> ]

# Index of Claims



Application/Control No.

10/181,564

Examiner

Tongoc Tran

Applicant(s)/Patent under Reexamination

EUCHNER, MARTIN

Art Unit

2134

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Meta 1002

**Search Notes**

Application/Control No.

10/181,564

Examiner

Tongoc Tran

Applicant(s)/Patent under  
Reexamination

EUCHNER, MARTIN

Art Unit

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**SEARCHED**

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**SEARCH NOTES  
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## EAST Search History

| Ref # | Hits | Search Query                                                                                                                                           | DBs                                                               | Default Operator | Plurals | Time Stamp       |
|-------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------|---------|------------------|
| L1    | 2    | hash and mac and authenticat\$4<br>and public and private and key\$1<br>and rtp and header and payload<br>and timestamp and sequence and<br>encrypt\$4 | USPAT                                                             | OR               | OFF     | 2006/04/25 19:48 |
| L2    | 13   | hash and mac and authenticat\$4<br>and public and private and key\$1<br>and rtp and header and payload<br>and timestamp and sequence and<br>timestamp  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/04/25 19:50 |
| L3    | 0    | l2 and @ad<"20000101"                                                                                                                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/04/25 19:49 |
| L4    | 13   | hash and mac and authenticat\$4<br>and public and private and key\$1<br>and rtp and header and payload<br>and timestamp and sequence                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/04/25 19:50 |
| L5    | 13   | hash and mac and authenticat\$4<br>and public and private and key\$1<br>and rtp and header and payload<br>and timestamp                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/04/25 19:50 |
| L6    | 18   | hash and mac and authenticat\$4<br>and public and private and key\$1<br>and rtp and header and payload                                                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/04/25 19:50 |
| L7    | 0    | l6 and @ad<"20000101"                                                                                                                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/04/25 19:50 |
| L8    | 56   | hash and mac and authenticat\$4<br>and public and private and key\$1<br>and rtp and header                                                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/04/25 19:50 |

## EAST Search History

|     |      |                                                                                                     |                                                                   |    |     |                  |
|-----|------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----|-----|------------------|
| L9  | 33   | l8 and @ad<"20000101"                                                                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/04/25 19:55 |
| L10 | 502  | hash near4 header                                                                                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/04/25 19:56 |
| L11 | 0    | hash near4 header near4 mac<br>near5 authenticat\$4                                                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/04/25 19:56 |
| L12 | 16   | hash near4 header near4 mac                                                                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/04/25 19:56 |
| L13 | 0    | l12 and rtp                                                                                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/04/25 19:56 |
| L14 | 11   | l12 and @ad<"20000101"                                                                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/04/25 19:56 |
| S1  | 364  | rtp and payload and header and<br>(authenticat\$4 or mac or hash or<br>public or private or key)    | USPAT                                                             | OR | OFF | 2006/04/25 19:46 |
| S2  | 17   | (rtp and payload and header) with<br>(authenticat\$4 or mac or hash or<br>public or private or key) | USPAT                                                             | OR | OFF | 2006/04/25 18:45 |
| S3  | 2    | "l12" and "20020701"                                                                                | USPAT                                                             | OR | OFF | 2006/04/25 18:45 |
| S4  | 4678 | "l12" and @ad<"20020701"                                                                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/04/25 18:45 |

## EAST Search History

|    |    |                         |                                                                   |    |     |                  |
|----|----|-------------------------|-------------------------------------------------------------------|----|-----|------------------|
| S5 | 16 | S2 and @ad<"20020701"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/04/25 19:06 |
| S6 | 57 | rtp with authenticat\$4 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/04/25 19:10 |
| S7 | 3  | "707164".pn.            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/04/25 19:09 |



211

S&H Form: (02/05)

|                                            |                      |                |             |
|--------------------------------------------|----------------------|----------------|-------------|
| <b>REPLY/AMENDMENT<br/>FEE TRANSMITTAL</b> | Attorney Docket No.  | 1454.1302      |             |
|                                            | Application Number   | 10/181,564     |             |
|                                            | Filing Date          | July 18, 2002  |             |
|                                            | First Named Inventor | Martin EUCHNER |             |
|                                            | Group Art Unit       | 2134           |             |
| AMOUNT ENCLOSED                            |                      | Examiner Name  | Tongoc Tran |

**FEE CALCULATION (fees effective 12/08/04)**

| CLAIMS AS AMENDED  | Claims Remaining After Amendment | Highest Number Previously Paid For | Number Extra | Rate          | Calculations |
|--------------------|----------------------------------|------------------------------------|--------------|---------------|--------------|
| TOTAL CLAIMS       | 29                               | - 29 =                             | 0            | X \$ 50.00 =  | \$ 0.00      |
| INDEPENDENT CLAIMS | 5                                | - 5 =                              | 0            | X \$ 200.00 = | 0.00         |

Since an Official Action set an original due date of July 28, 2006, no extension of time fees are due:

If Notice of Appeal is enclosed, add (\$500.00)

If Statutory Disclaimer under Rule 20(d) is enclosed, add fee (\$130.00)

Information Disclosure Statement (Rule 1.17(p)) (\$180.00)

Total of above Calculations =

\$ 0.00

Reduction by 50% for filing by small entity (37 CFR 1.9, 1.27 & 1.28)

TOTAL FEES DUE =

\$ 0.00

(1) If entry (1) is less than entry (2), entry (3) is "0".

(2) If entry (2) is less than 20, change entry (2) to "20".

(4) If entry (4) is less than entry (5), entry (6) is "0".

(5) If entry (5) is less than 3, change entry (5) to "3".

**METHOD OF PAYMENT**

- ☐ Check enclosed as payment.
- ☐ Charge "TOTAL FEES DUE" to the Deposit Account No. below.
- ☒ No payment is enclosed.

**GENERAL AUTHORIZATION**

- ☒ If the above-noted "AMOUNT ENCLOSED" is not correct, the Commissioner is hereby authorized to credit any overpayment or charge any additional fees necessary to:

Deposit Account No. 19-3935

Deposit Account Name STAAS & HALSEY LLP

- ☒ The Commissioner is also authorized to credit any overpayments or charge any additional fees required under 37 CFR 1.16 (filing fees) or 37 CFR 1.17 (processing fees) during the prosecution of this application, including any related application(s) claiming benefit hereof pursuant to 35 USC § 120 (e.g., continuations/divisionals/CIPs under 37 CFR 1.53(b) and/or continuations/divisionals/CPAs under 37 CFR 1.53(d)) to maintain pendency hereof or of any such related application.

SUBMITTED BY: STAAS & HALSEY LLP

|            |                   |          |               |
|------------|-------------------|----------|---------------|
| Typed Name | Mehdi D. Sheikerz | Reg. No. | 41,307        |
| Signature  |                   | Date     | July 25, 2006 |

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Serial No. 10/181,564

Docket No.: 1454.1302

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

In re the Application of:

Martin EUCHNER

Serial No. 10/181,564

Group Art Unit: 2134

Confirmation No. 4619

Filed: July 18, 2002

Examiner: Tongoc Tran

For: METHOD, SYSTEM FOR TRANSMITTING DATA FROM A TRANSMITTER TO A  
RECEIVER, AND TRANSMITTER OR RECEIVER

**AMENDMENT**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

This is in response to the Office Action mailed April 28, 2006, and having a period for response set to expire on July 28, 2006.

The following amendments and remarks are respectfully submitted. Reconsideration of the claims is respectfully requested.

If there are any additional fees associated with filing of this Amendment, please charge the same to our Deposit Account No. 19-3935.

## IN THE CLAIMS

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please **AMEND** claims in accordance with the following:

1-16 (CANCELLED)

17. (CURRENTLY AMENDED) A method for transmitting data from a transmitter to a receiver, comprising:

extending ~~the data of an application protocol on an application layer~~ in the transmitter by inserting authentication data at end of a whole Real Time Transport Protocol (RTP) payload as the application protocol on the application layer~~using an application protocol on an application layer~~;

ascertaining, by the receiver, whether the receiver knows the transmitter based on the authentication data; and

accepting the data at the receiver, if the receiver knows the transmitter, and otherwise rejecting the data;

~~wherein the application protocol comprises a Real Time Transport Protocol (RTP) and the authentication data is inserted at end of an RTP payload.~~

18. (PREVIOUSLY PRESENTED) The method as claimed in claim 17, wherein the data are transmitted on a packet-oriented basis.

19. (PREVIOUSLY PRESENTED) The method as claimed in claim 17, wherein the authentication data are determined based on at least part of a protocol data unit available on the application layer, and the application protocol being linked to a secret by the transmitter.

20. (PREVIOUSLY PRESENTED) The method as claimed in claim 19, wherein the

linking to the secret is carried out by at least one of cryptographical linking to at least one further parameter, particularly by virtue of an encryption operation and a cryptographic checksum and key information.

21. (PREVIOUSLY PRESENTED) The method as claimed in claim 20, wherein said ascertaining includes verification at the receiver to determine whether the receiver knows the transmitter.

22. (PREVIOUSLY PRESENTED) The method as claimed in claim 21, wherein the verification is cryptographic verification using parameters and including at least one of a decryption operation and a cryptographic checksum check.

23. (PREVIOUSLY PRESENTED) The method as claimed in claim 22, wherein the secret between the transmitter and the receiver is one of a key for symmetric encryption and a key pair for asymmetric encryption.

24. (PREVIOUSLY PRESENTED) The method as claimed in claim 23, wherein the part of the protocol data unit available on the application layer includes at least one of a sequence number and a timestamp.

25. (PREVIOUSLY PRESENTED) The method as claimed in claim 24, wherein the encryption operation is performed using one of a one-way hash function and a message authentication code with a key known only to the receiver and the transmitter to be authenticated.

26. (PREVIOUSLY PRESENTED) The method as claimed in claim 25, wherein the authentication is carried out between the transmitter and the receiver before the data are transmitted from the transmitter to the receiver.

27. (PREVIOUSLY PRESENTED) The method as claimed in claim 26, wherein the receiver and transmitter provide packet-switched telephone services.

28. (PREVIOUSLY PRESENTED) The method as claimed in claim 27, wherein the

receiver and transmitter are each disposed in at least one of a switching node and a switching installation.

29. (PREVIOUSLY PRESENTED) The method as claimed in claim 26, wherein the receiver and transmitter are used in Internet telephony.

30. (PREVIOUSLY PRESENTED) The method as claimed in claim 29, wherein the receiver and transmitter are each disposed in at least one of a switching node and a switching installation.

31. (PREVIOUSLY PRESENTED) The method as claimed in claim 21, wherein the secret between the transmitter and the receiver is one of a key for symmetric encryption and a key pair for asymmetric encryption.

32. (PREVIOUSLY PRESENTED) The method as claimed in claim 21, wherein the part of the protocol data unit available on the application layer includes at least one of a sequence number and a timestamp.

33. (PREVIOUSLY PRESENTED) The method as claimed in claim 21, wherein the encryption operation is performed using one of a one-way hash function and a message authentication code with a key known only to the receiver and the transmitter to be authenticated.

34. (PREVIOUSLY PRESENTED) The method as claimed in claim 20, wherein the secret between the transmitter and the receiver is one of a key for symmetric encryption and a key pair for asymmetric encryption.

35. (PREVIOUSLY PRESENTED) The method as claimed in claim 20, wherein the part of the protocol data unit available on the application layer includes at least one of a sequence number and a timestamp.

36. (PREVIOUSLY PRESENTED) The method as claimed in claim 20, wherein the encryption operation is performed using one of a one-way hash function and a message

authentication code with a key known only to the receiver and the transmitter to be authenticated.

37. (PREVIOUSLY PRESENTED) The method as claimed in claim 19, wherein the secret between the transmitter and the receiver is one of a key for symmetric encryption and a key pair for asymmetric encryption.

38. (PREVIOUSLY PRESENTED) The method as claimed in claim 19, wherein the part of the protocol data unit available on the application layer includes at least one of a sequence number and a timestamp.

39. (PREVIOUSLY PRESENTED) The method as claimed in claim 19, wherein the secret is an encryption operation performed using one of a one-way hash function and a message authentication code with a key known only to the receiver and the transmitter to be authenticated.

40. (PREVIOUSLY PRESENTED) The method as claimed in claim 19, wherein said ascertaining includes cryptographic verification using parameters and including at least one of a decryption operation and a cryptographic checksum check.

41. (PREVIOUSLY PRESENTED) The method as claimed in claim 19, wherein said ascertaining includes cryptographic verification using parameters and including at least one of a decryption operation and a cryptographic checksum check.

42. (CURRENTLY AMENDED) A system for transmitting data, comprising:  
a transmitter to extend ~~the data by authentication data using~~ an application protocol on an application layer by inserting authentication data at end of a whole Real Time Transport Protocol (RTP) payload as the application protocol on the application layer; and  
a receiver to determine whether the transmitter is known based on the authentication data, to accept the data if the transmitter is known and to reject the data if the transmitter is not known,  
wherein the ~~application protocol comprises a Real Time Transport Protocol (RTP) having~~ whole RTP payload comprises an RTP header comprising at least one of a sequence

number and a time stamp, and

wherein the ~~extending the data by the authentication data using the application protocol~~inserting the authentication data at the end of the whole RTP payload comprises generating a message authentication code (MAC) according to a common secret between the transmitter and the receiver and using, as the application protocol, the whole RTP payload header sequence number and timestamp, and appending the MAC to ~~an~~the end of the whole RTP packet, and if a MAC obtained by a receiver is same as a MAC contained in a transmitted RTP packet received by the receiver, the receiver accepts the transmitted data.

43. (CURRENTLY AMENDED) A transmitter for sending data to a receiver, comprising:

a processor to extend ~~the data by authentication data using~~of an application protocol on an application layer by inserting authentication data at end of a whole Real Time Transport Protocol (RTP) payload as the application protocol on the application layer; and

a transmitter to send the whole RTP payload including data and the inserted authentication data to the receiver,

wherein the ~~application protocol comprises a Real Time Transport Protocol (RTP)~~having whole RTP payload comprises an RTP header comprising at least one of a sequence number and a time stamp, and

wherein the processor ~~extends the data by~~inserts the authentication data at the end of the whole RTP payload ~~using the application protocol~~, by generating a message authentication code (MAC) according to a common secret between the transmitter and the receiver and using, as the application protocol, the whole RTP payload header sequence number and timestamp, and appending the MAC to ~~an~~the end of the whole RTP packet.

44. (CURRENTLY AMENDED) A receiver for receiving data from a transmitter, comprising:

a processing unit to control the receiver according to a process comprising:

communicably connecting with the transmitter,

determining whether the transmitter is known based on authentication data added by the transmitter ~~according to an~~data of an application protocol on an application layer by inserting the authentication data at end of a whole Real Time Transport (RTP) payload as the application protocol on the application layer, and

accepting the data if the transmitter is known, and rejecting the data if the transmitter is not known,

wherein the ~~application protocol comprises a Real Time Transport Protocol (RTP)~~ having whole RTP payload comprises an RTP header comprising at least one of a sequence number and a time stamp, and

wherein the processing unit obtains the authentication data added by the transmitter to the end of the whole RTP payload ~~according to the application protocol~~, by generating a message authentication code (MAC) according to a common secret between the transmitter and the receiver and using, as the application protocol, the whole RTP payload header sequence number and timestamp.

45. (CURRENTLY AMENDED) A method of transmitting data from a transmitter to a receiver, comprising:

extending ~~the data of an application protocol on an application layer~~ in the transmitter by inserting authentication data at end of a whole Real Time Transport Protocol (RTP) payload as the application protocol on the application layer ~~using an application protocol on an application layer~~;

ascertaining, by the receiver, whether the receiver knows the transmitter based on the authentication data; and

accepting the data at the receiver, if the receiver knows the transmitter, and otherwise rejecting the data,

wherein the ~~application protocol comprises a Real Time Transport Protocol (RTP)~~ having whole RTP payload comprises an RTP header comprising at least one of a sequence number and a time stamp, and

wherein ~~the extending the data by the~~ inserting the authentication data at the end of the whole RTP payload ~~using the application protocol~~ comprises generating a message authentication code (MAC) according to a common secret between the transmitter and the receiver and using, as the application protocol, the whole RTP payload header sequence number and timestamp, and appending the MAC to ~~an~~ the end of the whole RTP packet, and if a MAC obtained by a receiver is same as a MAC contained in a transmitted RTP packet received by the receiver, the receiver accepts the transmitted data.

## REMARKS

### STATUS OF THE CLAIMS

Claims 17-45 are pending in the application.

Claims 17-45 are rejected under 35 USC 102(e) as being anticipated by Sengodan et al. (U.S. Patent No. 6,918,034).

According to the foregoing, the pending claims are amended, and thus, the pending claims remain for reconsideration, which is respectfully requested.

No new matter has been added.

### REJECTION

Sengodan does not disclose a method, wherein the application protocol comprises a Real Time Transport Protocol (RTP) and the authentication data is inserted at end of a whole RTP payload.

Sengodan discloses a method to provide encryption and authentication of a mini-packet in a multiplexed real time protocol (RTP) payload, the mini-packets being assembled into a payload (see Abstract). An authenticator is added to each mini-packet for authentication (see col. 6, lines 22-28 and Fig. 6). Therefore, as the RTP payload consists of mini-packets and their headers (see col.7, lines 47-65, Fig.3), the authentication data is not inserted at end of a whole RTP payload but at end of each mini-packet.

In other words, the method of Sengodan deals with a multiplexed real time protocol, which is more an inband protocol. This can be seen in Sendgodan Fig. 7 showing the RTP layer (722) and the Mini-packet layer (710), which is encapsulated in the RTP protocol.

Thus, the method of the claimed present invention as recited in independent claims 17, 42, 43, 44, and 45 using claim 17 as an example, protects ***the whole data packet transmitted in a RTP payload by inserting the authentication data at end of a whole RTP payload.*** According to the foregoing, the independent claims 17, 42, 43, 44 and 45 are amended to clarify the patentably distinguishing features of the present invention. A prima facie case of anticipation based upon Sengodan cannot be established, because Sengodan fails to disclose, either expressly or inherently (by necessarily providing) each and every element of the claimed present

invention's "**extending the data of an application protocol on an application layer** in the transmitter by **inserting authentication data at end of a whole Real Time Transport Protocol (RTP) payload** as the application protocol on the application layer using an application protocol on an application layer; ...," since Sengodan only adds an authenticator to each mini-packet within an RTP load, which differs from the claimed present invention's "**inserting authentication data at end of a whole Real Time Transport Protocol (RTP) payload**."

#### **INDEPENDENT CLAIMS 42-45**

To reject independent claims 42-45, the Office Action relies on Sengodan column 6, lines 47-55 and column 8, lines 22-37, which discuss a mini-header (FIGS. 2a, 2b) of a mini-packet 600 and using HMAC-SHA1 or HMAC-MD5 for the authenticator 620 added to the mini-packet 600 (FIG. 6). However, the claimed present invention as recited in independent claims 42-45 differs from Sengodan, because the claimed present invention's authenticator is based upon ***the whole RTP payload*** by providing "wherein the application protocol comprises a Real Time Transport Protocol (RTP) having **whole RTP payload comprises an RTP header comprising at least one of a sequence number and a time stamp**, and wherein the extending the data by the authentication data using the application protocol **inserting the authentication data at the end of the whole RTP payload comprises generating a message authentication code (MAC)** according to a common secret between the transmitter and the receiver and ***using, as the application protocol, the whole RTP payload header sequence number and timestamp, and appending the MAC to anthe end of the whole RTP packet***, and if a MAC obtained by a receiver is same as a MAC contained in a transmitted RTP packet received by the receiver, the receiver accepts the transmitted data." In other words, Sengodan fails to disclose, either expressly or inherently (by necessarily providing), the claimed present invention's "***generating a message authentication code (MAC) ... using, as the application protocol, the whole RTP payload header sequence number and timestamp, and appending the MAC to anthe end of the whole RTP packet***," since Sengodan only discusses a mini-header (FIGS. 2a, 2b) of a mini-packet 600 having mini-packet channel identifier 210, mini-packet length indicator 212, mini-packet Sequence Number 214, mini-packet transition bit 216 and mini-packet Reserved bit 218. Thus, independent claims 42-45 patentably distinguish over Sengodan.

For example, the present application paragraphs 37 and 38, and FIG. 4 support the claim amendments.

The claimed present invention's method has the advantageous new effect of being attached to an existing RTP protocol without further need of changes to the protocol and furthermore the applications transmitting data with the RTP protocol do not have to be changed.

In view of the claim amendments and remarks, withdrawal of the rejection of pending claims and allowance of pending claims is respectfully requested.

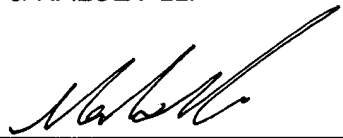
**CONCLUSION**

There being no further outstanding objections or rejections, it is submitted that the application is in condition for allowance. An early action to that effect is courteously solicited.

Finally, if there are any formal matters remaining after this response, the Examiner is requested to telephone the undersigned to attend to these matters.

Respectfully submitted,  
STAAS & HALSEY LLP

Date: July 25, 2006

By:   
Mehdi D. Sheikerz  
Registration No. 41,307

1201 New York Avenue, NW, 7th Floor  
Washington, D.C. 20005  
Telephone: (202) 434-1500  
Facsimile: (202) 434-1501



# PATENT APPLICATION FEE DETERMINATION RECORD

Effective October 1, 2001

Application or Docket Number

10/181564

## CLAIMS AS FILED - PART I

(Column 1) (Column 2)

|                                                           |               |              |
|-----------------------------------------------------------|---------------|--------------|
| TOTAL CLAIMS                                              |               |              |
| FOR                                                       | NUMBER FILED  | NUMBER EXTRA |
| TOTAL CHARGEABLE CLAIMS                                   | 28 minus 20 = | * 08         |
| INDEPENDENT CLAIMS                                        | 4 minus 3 =   | * 1          |
| MULTIPLE DEPENDENT CLAIM PRESENT <input type="checkbox"/> |               |              |

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

## CLAIMS AS AMENDED - PART II

2-6-06 (Column 1) (Column 2) (Column 3)

|             |                                                                         |      |                                    |               |
|-------------|-------------------------------------------------------------------------|------|------------------------------------|---------------|
| AMENDMENT A | CLAIMS REMAINING AFTER AMENDMENT                                        |      | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA |
|             | Total                                                                   | * 29 | Minus ** 28                        | = 1           |
|             | Independent                                                             | * 5  | Minus *** 4                        | = 1           |
|             | FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <input type="checkbox"/> |      |                                    |               |

SMALL ENTITY TYPE ☐ OR

OTHER THAN SMALL ENTITY

|           |        |    |           |        |
|-----------|--------|----|-----------|--------|
| RATE      | FEE    | OR | RATE      | FEE    |
| BASIC FEE | 370.00 | OR | BASIC FEE | 740.00 |
| X\$ 9=    |        | OR | X\$18=    | 144    |
| X42=      |        | OR | X84=      | 84     |
| +140=     |        | OR | +280=     |        |
| TOTAL     |        | OR | TOTAL     |        |

890

SMALL ENTITY TYPE ☐ OR

OTHER THAN SMALL ENTITY

|        |                 |    |        |                 |
|--------|-----------------|----|--------|-----------------|
| RATE   | ADDI-TIONAL FEE | OR | RATE   | ADDI-TIONAL FEE |
| X\$ 9= |                 | OR | X\$18= | 50              |
| X42=   |                 | OR | X84=   | 200             |
| +140=  |                 | OR | +280=  | 0               |
| TOTAL  |                 | OR | TOTAL  | 250             |

7-25-06 (Column 1) (Column 2) (Column 3)

|             |                                                                         |      |                                    |               |
|-------------|-------------------------------------------------------------------------|------|------------------------------------|---------------|
| AMENDMENT B | CLAIMS REMAINING AFTER AMENDMENT                                        |      | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA |
|             | Total                                                                   | * 29 | Minus ** 29                        | = 0           |
|             | Independent                                                             | * 5  | Minus *** 5                        | = 0           |
|             | FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <input type="checkbox"/> |      |                                    |               |

|        |                 |    |        |                 |
|--------|-----------------|----|--------|-----------------|
| RATE   | ADDI-TIONAL FEE | OR | RATE   | ADDI-TIONAL FEE |
| X\$ 9= |                 | OR | X\$18= | 0               |
| X42=   |                 | OR | X84=   | 0               |
| +140=  |                 | OR | +280=  | 0               |
| TOTAL  |                 | OR | TOTAL  | 0               |

(Column 1) (Column 2) (Column 3)

|             |                                                                         |   |                                    |               |
|-------------|-------------------------------------------------------------------------|---|------------------------------------|---------------|
| AMENDMENT C | CLAIMS REMAINING AFTER AMENDMENT                                        |   | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA |
|             | Total                                                                   | * | Minus **                           | =             |
|             | Independent                                                             | * | Minus ***                          | =             |
|             | FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <input type="checkbox"/> |   |                                    |               |

|        |                 |    |        |                 |
|--------|-----------------|----|--------|-----------------|
| RATE   | ADDI-TIONAL FEE | OR | RATE   | ADDI-TIONAL FEE |
| X\$ 9= |                 | OR | X\$18= |                 |
| X42=   |                 | OR | X84=   |                 |
| +140=  |                 | OR | +280=  |                 |
| TOTAL  |                 | OR | TOTAL  |                 |

\* 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.



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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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10/181,564

07/18/2002

Martin Euchner

1454.1302

4619

21171

7590

10/19/2006

STAAS & HALSEY LLP

SUITE 700

1201 NEW YORK AVENUE, N.W.

WASHINGTON, DC 20005

EXAMINER

TRAN, TONGOC

ART UNIT

PAPER NUMBER

2134

DATE MAILED: 10/19/2006

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

**Office Action Summary**

Application No.

10/181,564

Applicant(s)

EUCHNER, MARTIN

Examiner

Tongoc Tran

Art Unit

2134

-- 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 25 July 2006.
- 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) 17-45 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) 17-45 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:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ 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) <input type="checkbox"/> Notice of References Cited (PTO-892)                                           | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____                                                |

**Meta 1002**  
**p. 568**

### **DETAILED ACTION**

1. This Office Action is in response to Applicant's amendment filed on 7/25/2006. Claims 17 and 42-45 have been amended. Claims 17-45 are pending for examination.

#### ***Response to Arguments***

2. In response to Applicant's remark to the amended claims where the authentication data is inserted in the application layer at the end of the whole Real Time Transport Protocol (RTP) payload. Furthermore, Applicant argues that the cited prior art either expressly or inherently teach the claimed invention's "generating a message authentication code (MAC)...using as the application protocol, the whole RTP payload header sequence number and timestamp, and appending the MAC to the end of the whole RTP packet" (remark, page 9). Examiner respectfully disagrees. Sengodan teaches a mini-packet (mini-packet is a packet) is appended with an authenticator, e.g. HMAC-MD5, header sequence number and timestamp is inherently required in every packet, in order for the receiver to know whether any packet is missing during the transmission and the time the packet is transmitted (see Fig. 4, item 450 and Fig. 6, and col. 8, lines 22-37).

#### ***Claim Rejections - 35 USC § 102***

3. 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.

Claims 17-45 are rejected under 35 U.S.C. 102(e) as being anticipated by Sengodan et al. (U.S. Patent No. 6,918,034, hereinafter Sengodan).

In respect to claims 17, 24-25, 32-33, 35-36 and 38-45, Sengodan discloses a method for transmitting data from a transmitter to a receiver, comprising:

Extending data of an application protocol on an application layer in the transmitter by inserting authentication data at end of a whole Real Time Transport Protocol (RTP) payload as the application protocol on the application layer (Abstract, Fig. 6, col. 5, lines 44-47);

Ascertaining, by the receiver, whether the receiver knows the transmitter based on the authentication data; and accepting the data at the receiver, if the receiver knows the transmitter based on the authentication data wherein the application protocol comprises a Real Time Protocol (RTP) and the authentication data is inserted at end of an RTP payload wherein the application protocol comprising a sequence number, timestamp and generating a message a MAC and verifying (see col. 6, lines 47-55 and col. 8, lines 22-37).

In respect to claim 18, Sengodan discloses wherein the data are transmitted on a packet-oriented basis (see col. 1, lines 9-13).

In respect to claim 19, Sengodan discloses wherein the authentication data are determined based on at least part of a protocol data unit available on the application layer, and the application protocol being linked to a secret by the transmitter (see col. 8, lines 22-37, HMAC-SHA1).

In respect to claim 20, Sengodan discloses wherein the linking to the secret is carried out by at least one of cryptographical linking to at least one further parameter, particularly by virtue of an encryption operation and a cryptographic checksum and key information (see col. 8, lines 22-37).

In respect to claim 21, Sengodan discloses wherein said ascertaining includes verification at the receiver to determine whether the receiver knows the transmitter (see col.8, lines 31-37).

In respect to claim 22, Sengodan discloses wherein the verification is cryptographic verification using parameter and including at least one of a decryption operation and a cryptographic checksum check (see col. 8, lines 22-37).

In respect to claims 23, 31, 34 and 37, Sengodan discloses wherein the secret between the transmitter and the receiver is one of a key for symmetric encryption and a key pair for asymmetric encryption (see col. 3, lines 54-63).

In respect to claim 26, Sengodan discloses wherein the authentication is carried out between the transmitter and the receiver (see Col. 8, lines 22-37).

In respect to claim 27, Sengodan discloses wherein the receiver and transmitter provide packet-switched telephone services (see col. 2, lines 39-50).

In respect to claims 28 and 30, Sengodan discloses wherein the receiver and transmitter are disposed in at least one of a switching node and a switching installation (see col. 2, lines 39-50).

In respect to claim 29, Sengodan discloses wherein the receiver and transmitter are used in Internet telephony (see col. 2, lines 39-50).

### *Conclusion*

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). 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 date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tongoc Tran whose telephone number is (571) 272-3843. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jacques Louis-Jacques can be reached on (571) 272-3962. 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.

TT  
October 4, 2006

NASSER MOAZZAMI  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100

  
10/13/06

# Index of Claims



Application/Control No.

10/181,564

Examiner

Tongoc Tran

Applicant(s)/Patent under  
Reexamination

EUCHNER, MARTIN

Art Unit

2134

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| ✓ | Rejected |
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Meta 1002

**RESPONSE AFTER FINAL OFFICE ACTION  
EXPEDITED PROCEDURE  
EXAMINING GROUP 2134  
Docket No.: 1454.1302**

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

In re the Application of:

Martin EUCHNER

Serial No. 10/181,564

Group Art Unit: 2134

Confirmation No. 4619

Filed: July 18, 2002

Examiner: Tongoc Tran

For: METHOD, SYSTEM FOR TRANSMITTING DATA FROM A TRANSMITTER TO A  
RECEIVER, AND TRANSMITTER OR RECEIVER

**AMENDMENT AFTER FINAL REJECTION UNDER 37 CFR 1.116**

**AND**

**REQUEST FOR INTERVIEW WITH EXAMINER**

**MAIL STOP AF**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

This is in response to the final Office Action mailed October 19, 2006, and having a period for response set to expire on January 19, 2007. This Amendment After Final is timely filed on December 19, 2006 within two months from the final Office Action date.

Pursuant to the telephone conference with the Examiner on December 6, 2006 for scheduling an interview, it is respectfully requested the Examiner consider granting an interview based upon the amendment and remarks submitted to advance prosecution.

Entry of this amendment and reconsideration of the claims is respectfully requested, because it is believed the amendments and remarks clarify the patentably distinguishing features recited by the language of the claims without raising new issues, because the remarks apply the discussions of Sengodan specifically to the language of the amended claims, and

because in view of the claim amendments and remarks it is believed the claims are allowable over the relied upon Sengodan.

If there are any additional fees associated with filing of this Amendment, please charge the same to our Deposit Account No. 19-3935.

## IN THE CLAIMS

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~striketrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please **AMEND** claims in accordance with the following:

Please **CANCEL** claim 18 according to the following.

1-16 (CANCELLED)

17. (CURRENTLY AMENDED) A method for transmitting data from a transmitter to a receiver, comprising:

~~extending data of an application protocol on an application layer in the transmitter~~providing transmitter-to-receiver authentication at a Real Time Transport Protocol (RTP) packet level as an application protocol on an application layer by inserting, at the transmitter, authentication data at end of a whole Real Time Transport Protocol (RTP) RTP packet payload as the application protocol on the application layer;

ascertaining, by the receiver, whether the receiver knows the transmitter based on the RTP packet level authentication data; and

accepting, by the receiver, the data at the receiver whole RTP packet payload, if the receiver knows the transmitter, and otherwise rejecting the ~~data~~whole RTP packet payload.

18. (CANCELLED).

19. (PREVIOUSLY PRESENTED) The method as claimed in claim 17, wherein the authentication data are determined based on at least part of a protocol data unit available on the application layer, and the application protocol being linked to a secret by the transmitter.

20. (PREVIOUSLY PRESENTED) The method as claimed in claim 19, wherein the linking to the secret is carried out by at least one of cryptographical linking to at least one further

parameter, particularly by virtue of an encryption operation and a cryptographic checksum and key information.

21. (PREVIOUSLY PRESENTED) The method as claimed in claim 20, wherein said ascertaining includes verification at the receiver to determine whether the receiver knows the transmitter.

22. (PREVIOUSLY PRESENTED) The method as claimed in claim 21, wherein the verification is cryptographic verification using parameters and including at least one of a decryption operation and a cryptographic checksum check.

23. (PREVIOUSLY PRESENTED) The method as claimed in claim 22, wherein the secret between the transmitter and the receiver is one of a key for symmetric encryption and a key pair for asymmetric encryption.

24. (PREVIOUSLY PRESENTED) The method as claimed in claim 23, wherein the part of the protocol data unit available on the application layer includes at least one of a sequence number and a timestamp.

25. (PREVIOUSLY PRESENTED) The method as claimed in claim 24, wherein the encryption operation is performed using one of a one-way hash function and a message authentication code with a key known only to the receiver and the transmitter to be authenticated.

26. (PREVIOUSLY PRESENTED) The method as claimed in claim 25, wherein the authentication is carried out between the transmitter and the receiver before the data are transmitted from the transmitter to the receiver.

27. (PREVIOUSLY PRESENTED) The method as claimed in claim 26, wherein the receiver and transmitter provide packet-switched telephone services.

28. (PREVIOUSLY PRESENTED) The method as claimed in claim 27, wherein the receiver and transmitter are each disposed in at least one of a switching node and a switching

installation.

29. (PREVIOUSLY PRESENTED) The method as claimed in claim 26, wherein the receiver and transmitter are used in Internet telephony.

30. (PREVIOUSLY PRESENTED) The method as claimed in claim 29, wherein the receiver and transmitter are each disposed in at least one of a switching node and a switching installation.

31. (PREVIOUSLY PRESENTED) The method as claimed in claim 21, wherein the secret between the transmitter and the receiver is one of a key for symmetric encryption and a key pair for asymmetric encryption.

32. (PREVIOUSLY PRESENTED) The method as claimed in claim 21, wherein the part of the protocol data unit available on the application layer includes at least one of a sequence number and a timestamp.

33. (PREVIOUSLY PRESENTED) The method as claimed in claim 21, wherein the encryption operation is performed using one of a one-way hash function and a message authentication code with a key known only to the receiver and the transmitter to be authenticated.

34. (PREVIOUSLY PRESENTED) The method as claimed in claim 20, wherein the secret between the transmitter and the receiver is one of a key for symmetric encryption and a key pair for asymmetric encryption.

35. (PREVIOUSLY PRESENTED) The method as claimed in claim 20, wherein the part of the protocol data unit available on the application layer includes at least one of a sequence number and a timestamp.

36. (PREVIOUSLY PRESENTED) The method as claimed in claim 20, wherein the encryption operation is performed using one of a one-way hash function and a message authentication code with a key known only to the receiver and the transmitter to be

authenticated.

37. (PREVIOUSLY PRESENTED) The method as claimed in claim 19, wherein the secret between the transmitter and the receiver is one of a key for symmetric encryption and a key pair for asymmetric encryption.

38. (PREVIOUSLY PRESENTED) The method as claimed in claim 19, wherein the part of the protocol data unit available on the application layer includes at least one of a sequence number and a timestamp.

39. (PREVIOUSLY PRESENTED) The method as claimed in claim 19, wherein the secret is an encryption operation performed using one of a one-way hash function and a message authentication code with a key known only to the receiver and the transmitter to be authenticated.

40. (PREVIOUSLY PRESENTED) The method as claimed in claim 19, wherein said ascertaining includes cryptographic verification using parameters and including at least one of a decryption operation and a cryptographic checksum check.

41. (PREVIOUSLY PRESENTED) The method as claimed in claim 19, wherein said ascertaining includes cryptographic verification using parameters and including at least one of a decryption operation and a cryptographic checksum check.

42. (CURRENTLY AMENDED) A system for transmitting data, comprising:  
a transmitter ~~to extend data of an application protocol on an application layer~~ providing transmitter-to-receiver authentication at a Real Time Transport Protocol (RTP) packet level by inserting authentication data at end of a whole Real Time Transport Protocol (RTP) RTP packet payload as the application protocol on the application layer; and  
a receiver to determine whether the transmitter is known based on the RTP packet level authentication data, to accept the ~~data~~ whole RTP packet payload if the transmitter is known and to reject the ~~data~~ whole RTP packet payload if the transmitter is not known,  
wherein the whole RTP packet payload comprises ~~ana~~ a whole RTP packet payload header comprising at least one of a sequence number and a time stamp, and

wherein the inserting the authentication data at the end of the whole RTP packet payload comprises generating a message authentication code (MAC) according to a common secret between the transmitter and the receiver and using, ~~as the application protocol,~~ the whole RTP packet payload header sequence number and timestamp, and appending the MAC to the end of the whole RTP packet payload, and if a MAC obtained by a receiver is same as a MAC contained in a transmitted whole RTP packet payload received by the receiver, the receiver accepts the transmitted ~~data~~ whole RTP packet.

43. (CURRENTLY AMENDED) A transmitter for sending data to a receiver, comprising:

a processor ~~to extend data of an application protocol on an application layer~~ providing transmitter-to-receiver authentication at a Real Time Transport Protocol (RTP) packet level by inserting authentication data at end of a whole ~~Real-Time-Transport-Protocol (RTP)~~ RTP packet payload ~~as the application protocol on the application layer;~~ and

a transmitter to send the whole RTP packet payload including the inserted authentication data to the receiver,

wherein the whole RTP packet payload comprises an RTP header comprising at least one of a sequence number and a time stamp, and

wherein the processor inserts the authentication data at the end of the whole RTP packet payload by generating a message authentication code (MAC) according to a common secret between the transmitter and the receiver and using, ~~as the application protocol,~~ the whole RTP packet payload header sequence number and timestamp, and appending the MAC to the end of the whole RTP packet payload.

44. (CURRENTLY AMENDED) A receiver for receiving data from a transmitter, comprising:

a processing unit, ~~to control the receiver according to a process comprising:~~  
communicably connecting with the transmitter,  
determining whether the transmitter is known based on ~~authentication data added by the transmitter to data of an application protocol on an application layer~~ the transmitter providing transmitter-to-receiver authentication at a Real Time Transport Protocol (RTP) packet level by inserting ~~the authentication data at end of a whole Real-Time-Transport (RTP)~~ RTP packet payload ~~as the application protocol on the application layer,~~ and

accepting the whole RTP packet payload data if the transmitter is known, and rejecting the datawhole RTP packet payload if the transmitter is not known, based upon the RTP packet level authentication data,

wherein the whole RTP packet payload comprises ~~ana~~ whole RTP packet payload header comprising at least one of a sequence number and a time stamp, and

wherein the processing unit obtains the authentication data added by the transmitter to the end of the whole RTP packet payload by generating a message authentication code (MAC) according to a common secret between the transmitter and the receiver and using, ~~as the application protocol~~, the whole RTP packet payload header sequence number and timestamp.

45. (CURRENTLY AMENDED) A method of transmitting data from a transmitter to a receiver, comprising:

~~extending data of an application protocol on an application layer in the transmitter~~  
providing transmitter-to-receiver authentication at a Real Time Transport Protocol (RTP) packet level by inserting authentication data at end of a whole ~~Real Time Transport Protocol (RTP)~~ RTP packet payload as the application protocol on the application layer;

ascertaining, by the receiver, whether the receiver knows the transmitter based on the RTP packet level authentication data; and

accepting the ~~data~~whole RTP packet payload at the receiver, if the receiver knows the transmitter, and otherwise rejecting the ~~data~~whole RTP packet payload,

wherein the whole RTP packet payload comprises ~~ana~~ whole RTP packet payload header comprising at least one of a sequence number and a time stamp, and

wherein the inserting the authentication data at the end of the whole RTP packet payload comprises generating a message authentication code (MAC) according to a common secret between the transmitter and the receiver and using, ~~as the application protocol~~, the whole RTP packet payload header sequence number and timestamp, and appending the MAC to the end of the whole RTP packet payload, and if a MAC obtained by a receiver is same as a MAC contained in a transmitted whole RTP packet payload received by the receiver, the receiver accepts the transmitted ~~data~~whole RTP packet payload.

## **REMARKS**

### **STATUS OF THE CLAIMS**

Claims 17-45 have been pending in the application.

Claims 17-45 are rejected under 35 USC 102(e) as being anticipated by Sengodan et al. (U.S. Patent No. 6,918,034).

According to the foregoing, claim 18 is cancelled without prejudice or disclaimer, the pending claims are amended, and thus, the pending claims remain for reconsideration, which is respectfully requested.

No new matter has been added.

### **REJECTION**

The Office Action maintains from the previous Office Action the rejection of pending claims 17-45 as being anticipated under 35 USC 102(e) by Sengodan. According to the foregoing, the independent claims 17 and 42-45 are amended to emphasize in contrast to Sengodan, the claimed embodiment provides "~~extending data of an application protocol on an application layer in the transmitter~~ **providing transmitter-to-receiver authentication at a Real Time Transport Protocol (RTP) packet level by inserting, at the transmitter, authentication data at end of a whole Real Time Transport Protocol (RTP) RTP packet payload** as the application protocol on the application layer."

A prima facie case of anticipation cannot be established based upon Sengodan, because Sengodan relates a multiplexed RTP protocol using mini packets in an RTP payload, the mini packets being assembled into the RTP packet payload (see Abstract). Sengodan discusses that an authenticator is added to each mini-packet assembled into the RTP payload for authentication (Sengodan column 6, lines 22-28 and FIG. 6), but Sengodan fails to disclose, either expressly or inherently (by necessarily providing), the claimed embodiment "**providing transmitter-to-receiver authentication at a Real Time Transport Protocol (RTP) packet level by inserting, at the transmitter, authentication data at end of a whole Real Time Transport Protocol (RTP) RTP packet payload**." It is readily apparent Sengodan does not expressly disclose the claimed embodiment. However, Sengodan also fails to inherently disclose the claimed embodiment by necessarily providing the claimed "**transmitter-to-receiver**

**authentication at a Real Time Transport Protocol (RTP) packet level,**" because Sengodan column 7, lines 58-65 expressly teaches away from the claimed embodiment by discussing "However, since mini-packets can be switched at intermediate points in the network, providing authentication and encryption at the IP level or at the RTP packet level will not provide end-to-end authentication or encryption." In other words, according to the claimed embodiment, authentication data is inserted at end of a whole RTP payload 404 (FIG. 4), but Sengodan FIG. 3 shows mini packets 330, 350, 370 assembled into the RTP payload. Clearly there is a patentably distinguishing difference between the claimed **"transmitter-to-receiver authentication at a Real Time Transport Protocol (RTP) packet level by inserting, at the transmitter, authentication data at end of a whole Real-Time-Transport-Protocol (RTP) RTP packet payload"** and Sengodan's mini packets 330, 350, 370 each with an authenticator 320, 340, 360, respectively, that are assembled into an RTP packet payload, since a Sengodan receiver does not rely on the claimed **"transmitter-to-receiver authentication at a Real Time Transport Protocol (RTP) packet level,"** but Sengodan only authenticates mini packets 330, 350, 370 as assembled into the RTP payload and Sengodan cannot provide the claimed **"accepting ... the data at the receiver whole RTP packet payload"** based upon **"the RTP packet level authentication data."**

Clearly the Sengodan authentication in a multiplexed real-time protocol (RTP) does not necessarily include the claimed **"transmitter-to-receiver authentication at a Real Time Transport Protocol (RTP) packet level by inserting, at the transmitter, authentication data at end of a whole Real-Time-Transport-Protocol (RTP) RTP packet payload,"** and "ascertaining, by the receiver, **whether the receiver knows the transmitter based on the RTP packet level authentication data; ... accepting, by the receiver, the data at the receiver whole RTP packet payload,** if the receiver knows the transmitter, and otherwise **rejecting the data whole RTP packet payload,**" and thus, a prima facie case of anticipation cannot be established based upon Sengodan, because Sengodan fails to disclose, either expressly or inherently (by necessarily providing) each and every element set forth in the claimed embodiment.

For example, the present Application FIGS. 3 and 4, and paragraphs 19-21 and 34-37 support the claim amendments.

In view of the claim amendments and remarks, withdrawal of the rejection of pending claims and allowance of pending claims is respectfully requested.

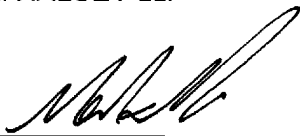
**CONCLUSION**

There being no further outstanding objections or rejections, it is submitted that the application is in condition for allowance. An early action to that effect is courteously solicited.

Finally, if there are any formal matters remaining after this response, the Examiner is requested to telephone the undersigned to attend to these matters.

Respectfully submitted,  
STAAS & HALSEY LLP

Date: December 19, 2006

By:   
Mehdi D. Sheikerz  
Registration No. 41,307

1201 New York Avenue, NW, 7th Floor  
Washington, D.C. 20005  
Telephone: (202) 434-1500  
Facsimile: (202) 434-1501

## Electronic Acknowledgement Receipt

|                                             |                                                                                                   |
|---------------------------------------------|---------------------------------------------------------------------------------------------------|
| <b>EFS ID:</b>                              | 1385190                                                                                           |
| <b>Application Number:</b>                  | 10181564                                                                                          |
| <b>International Application Number:</b>    |                                                                                                   |
| <b>Confirmation Number:</b>                 | 4619                                                                                              |
| <b>Title of Invention:</b>                  | Method, system for transmitting data from a transmitter to a receiver and transmitter or receiver |
| <b>First Named Inventor/Applicant Name:</b> | Martin Euchner                                                                                    |
| <b>Customer Number:</b>                     | 21171                                                                                             |
| <b>Filer:</b>                               | Mehdi Sheikerz/Brian Formagus                                                                     |
| <b>Filer Authorized By:</b>                 | Mehdi Sheikerz                                                                                    |
| <b>Attorney Docket Number:</b>              | 1454.1302                                                                                         |
| <b>Receipt Date:</b>                        | 19-DEC-2006                                                                                       |
| <b>Filing Date:</b>                         | 18-JUL-2002                                                                                       |
| <b>Time Stamp:</b>                          | 14:56:20                                                                                          |
| <b>Application Type:</b>                    | U.S. National Stage under 35 USC 371                                                              |

### Payment information:

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

### File Listing:

| Document Number | Document Description | File Name               | File Size(Bytes) | Multi Part /.zip | Pages (if appl.)          |
|-----------------|----------------------|-------------------------|------------------|------------------|---------------------------|
| 1               |                      | AmendmentAfterFinal.pdf | 453970           | yes              | 12<br>Meta 1002<br>p. 586 |

|  | Multipart Description/PDF files in .zip description |       |     |
|--|-----------------------------------------------------|-------|-----|
|  | Document Description                                | Start | End |
|  | Fee Worksheet (PTO-06)                              | 1     | 1   |
|  | Amendment After Final                               | 2     | 3   |
|  | Claims                                              | 4     | 9   |
|  | Applicant Arguments/Remarks Made in an Amendment    | 10    | 12  |

**Warnings:**

**Information:**

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| <b>Total Files Size (in bytes):</b> | 453970 |
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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.

|                                      |  |                      |                |  |
|--------------------------------------|--|----------------------|----------------|--|
| <b>AMENDMENT<br/>FEE TRANSMITTAL</b> |  | Attorney Docket No.  | 1454.1302      |  |
|                                      |  | Application Number   | 10/181,564     |  |
|                                      |  | Filing Date          | July 18, 2002  |  |
|                                      |  | First Named Inventor | Martin EUCHNER |  |
|                                      |  | Group Art Unit       | 2134           |  |
| AMOUNT ENCLOSED                      |  | Examiner Name        | Tongoc Tran    |  |

| FEE CALCULATION (fees effective 12/08/04)                                                                                                                                                                                                                                 |                                  |                                    |              |               |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------|--------------|---------------|--------------|
| CLAIMS AS AMENDED                                                                                                                                                                                                                                                         | Claims Remaining After Amendment | Highest Number Previously Paid For | Number Extra | Rate          | Calculations |
| TOTAL CLAIMS                                                                                                                                                                                                                                                              | 28                               | - 29 =                             | 0            | X \$ 50.00 =  | \$ 0.00      |
| INDEPENDENT CLAIMS                                                                                                                                                                                                                                                        | 5                                | - 5 =                              | 0            | X \$ 200.00 = | 0.00         |
| Since an Official Action set an <u>original</u> due date of <u>January 19, 2007</u> , no extension of time fees are due:                                                                                                                                                  |                                  |                                    |              |               |              |
| If Notice of Appeal is enclosed, add (\$500.00)                                                                                                                                                                                                                           |                                  |                                    |              |               |              |
| If Statutory Disclaimer under Rule 20(d) is enclosed, add fee (\$130.00)                                                                                                                                                                                                  |                                  |                                    |              |               |              |
| Information Disclosure Statement (Rule 1.17(p)) (\$180.00)                                                                                                                                                                                                                |                                  |                                    |              |               |              |
| Total of above Calculations =                                                                                                                                                                                                                                             |                                  |                                    |              |               | \$ 0.00      |
| Reduction by 50% for filing by small entity (37 CFR 1.9, 1.27 & 1.28)                                                                                                                                                                                                     |                                  |                                    |              |               |              |
| TOTAL FEES DUE =                                                                                                                                                                                                                                                          |                                  |                                    |              |               | \$ 0.00      |
| <small>(1) If entry (1) is less than entry (2), entry (3) is "0".<br/> (2) If entry (2) is less than 20, change entry (2) to "20".<br/> (4) If entry (4) is less than entry (5), entry (6) is "0".<br/> (5) If entry (5) is less than 3, change entry (5) to "3".</small> |                                  |                                    |              |               |              |

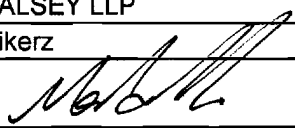
  

| METHOD OF PAYMENT                   |                                                           |
|-------------------------------------|-----------------------------------------------------------|
| <input type="checkbox"/>            | Check enclosed as payment.                                |
| <input type="checkbox"/>            | Charge "TOTAL FEES DUE" to the Deposit Account No. below. |
| <input checked="" type="checkbox"/> | No payment is enclosed.                                   |

| GENERAL AUTHORIZATION               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | If the above-noted "AMOUNT ENCLOSED" is not correct, the Commissioner is hereby authorized to credit any overpayment or charge any additional fees necessary to:<br><div style="margin-left: 40px;">           Deposit Account No. <span style="border: 1px solid black; padding: 2px;">19-3935</span><br/>           Deposit Account Name <span style="border: 1px solid black; padding: 2px;">STAAS &amp; HALSEY LLP</span> </div>                                                            |
| <input checked="" type="checkbox"/> | The Commissioner is also authorized to credit any overpayments or charge any additional fees required under 37 CFR 1.16 (filing fees) or 37 CFR 1.17 (processing fees) during the prosecution of this application, including any related application(s) claiming benefit hereof pursuant to 35 USC § 120 (e.g., continuations/divisionals/CIPs under 37 CFR 1.53(b) and/or continuations/divisionals/CPAs under 37 CFR 1.53(d)) to maintain pendency hereof or of any such related application. |

|                                  |                                                                                     |          |                   |
|----------------------------------|-------------------------------------------------------------------------------------|----------|-------------------|
| SUBMITTED BY: STAAS & HALSEY LLP |                                                                                     |          |                   |
| Typed Name                       | Mehdi D. Sheikerz                                                                   | Reg. No. | 41,307            |
| Signature                        |  | Date     | December 19, 2006 |

# PATENT APPLICATION FEE DETERMINATION RECORD

Effective October 1, 2001

Application or Docket Number

10/181564

## CLAIMS AS FILED - PART I

(Column 1)

(Column 2)

|                                                           |               |              |
|-----------------------------------------------------------|---------------|--------------|
| TOTAL CLAIMS                                              |               |              |
| FOR                                                       | NUMBER FILED  | NUMBER EXTRA |
| TOTAL CHARGEABLE CLAIMS                                   | 28 minus 20 = | 08           |
| INDEPENDENT CLAIMS                                        | 4 minus 3 =   | 1            |
| MULTIPLE DEPENDENT CLAIM PRESENT <input type="checkbox"/> |               |              |

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

## CLAIMS AS AMENDED - PART II

2-6-06

(Column 1)

(Column 2)

(Column 3)

|             |                                                                         |    |                                    |    |               |
|-------------|-------------------------------------------------------------------------|----|------------------------------------|----|---------------|
| AMENDMENT A | CLAIMS REMAINING AFTER AMENDMENT                                        |    | HIGHEST NUMBER PREVIOUSLY PAID FOR |    | PRESENT EXTRA |
|             | Total                                                                   | 29 | Minus                              | 28 | 1             |
|             | Independent                                                             | 5  | Minus                              | 4  | 1             |
|             | FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <input type="checkbox"/> |    |                                    |    |               |

7-25-06

(Column 1)

(Column 2)

(Column 3)

|             |                                                                         |    |                                    |    |               |
|-------------|-------------------------------------------------------------------------|----|------------------------------------|----|---------------|
| AMENDMENT B | CLAIMS REMAINING AFTER AMENDMENT                                        |    | HIGHEST NUMBER PREVIOUSLY PAID FOR |    | PRESENT EXTRA |
|             | Total                                                                   | 29 | Minus                              | 29 | 0             |
|             | Independent                                                             | 5  | Minus                              | 5  | 0             |
|             | FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <input type="checkbox"/> |    |                                    |    |               |

12-19-06

(Column 1)

(Column 2)

(Column 3)

|             |                                                                         |    |                                    |    |               |
|-------------|-------------------------------------------------------------------------|----|------------------------------------|----|---------------|
| AMENDMENT C | CLAIMS REMAINING AFTER AMENDMENT                                        |    | HIGHEST NUMBER PREVIOUSLY PAID FOR |    | PRESENT EXTRA |
|             | Total                                                                   | 28 | Minus                              | 27 | 1             |
|             | Independent                                                             | 5  | Minus                              | 5  | 0             |
|             | FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <input type="checkbox"/> |    |                                    |    |               |

\* 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.

SMALL ENTITY TYPE ☐

OTHER THAN SMALL ENTITY

|           |        |    |           |        |
|-----------|--------|----|-----------|--------|
| RATE      | FEE    | OR | RATE      | FEE    |
| BASIC FEE | 370.00 | OR | BASIC FEE | 740.00 |
| X\$ 9=    |        | OR | X\$18=    | 144    |
| X42=      |        | OR | X84=      | 84     |
| +140=     |        | OR | +280=     |        |
| TOTAL     |        | OR | TOTAL     |        |

890

SMALL ENTITY

OR

OTHER THAN SMALL ENTITY

|        |                |    |        |                |
|--------|----------------|----|--------|----------------|
| RATE   | ADDITIONAL FEE | OR | RATE   | ADDITIONAL FEE |
| X\$ 8= |                | OR | X\$18= | 50             |
| X42=   |                | OR | X84=   | 200            |
| +140=  |                | OR | +280=  | 0              |
| TOTAL  |                | OR | TOTAL  | 250            |

|        |                |    |        |                |
|--------|----------------|----|--------|----------------|
| RATE   | ADDITIONAL FEE | OR | RATE   | ADDITIONAL FEE |
| X\$ 9= |                | OR | X\$18= | 0              |
| X42=   |                | OR | X84=   | 0              |
| +140=  |                | OR | +280=  | 0              |
| TOTAL  |                | OR | TOTAL  | 0              |

|        |                |    |        |                |
|--------|----------------|----|--------|----------------|
| RATE   | ADDITIONAL FEE | OR | RATE   | ADDITIONAL FEE |
| X\$ 9= |                | OR | X\$18= |                |
| X42=   |                | OR | X84=   |                |
| +140=  |                | OR | +280=  |                |
| TOTAL  |                | OR | TOTAL  |                |



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| APPLICATION NO.            | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|----------------------------|-------------|----------------------|---------------------|------------------|
| 10/181,564                 | 07/18/2002  | Martin Euchner       | 1454.1302           | 4619             |
| 21171                      | 7590        | 01/18/2007           | EXAMINER            |                  |
| STAAS & HALSEY LLP         |             |                      | TRAN, TONGOC        |                  |
| SUITE 700                  |             |                      | ART UNIT            | PAPER NUMBER     |
| 1201 NEW YORK AVENUE, N.W. |             |                      | 2134                |                  |
| WASHINGTON, DC 20005       |             |                      | MAIL DATE           | DELIVERY MODE    |
|                            |             |                      | 01/18/2007          | PAPER            |

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

**Advisory Action  
Before the Filing of an Appeal Brief**

Application No.

10/181,564

Applicant(s)

EUCHNER, MARTIN

Examiner

Tongoc Tran

Art Unit

2134

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

THE REPLY FILED 19 December 2006 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 Continuation Sheet. (See 37 CFR 1.116 and 41.33(a)).

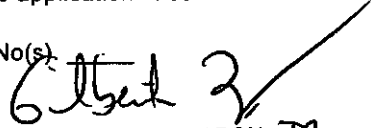
4. ☐ The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).  
5. ☐ Applicant's reply has overcome the following rejection(s): \_\_\_\_\_.  
6. ☐ Newly proposed or amended claim(s) \_\_\_\_\_ would be allowable if submitted in a separate, timely 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: 17, 19-45.  
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 of 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: \_\_\_\_\_

  
GILBERTO BARRON JR.  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100

Meta 1002

Continuation of 3. NOTE: The amended limitation where "providing transmitter-to-receiver authentication at a Real Time Transport Protocol (RTP) packet level as an application protocol on an application layer by inserting at the transmitter" has introduced new issue to the scope of the claim. Therefore require reconsideration and/or search..

[REDACTED]

Tongoc Tran

2134

[illegible]

| INTERFERENCE SEARCHED |          |      |          |
|-----------------------|----------|------|----------|
| Class                 | Subclass | Date | Examiner |
|                       |          |      |          |
|                       |          |      |          |
|                       |          |      |          |
|                       |          |      |          |

[illegible]

Serial No. 10/181,564

**RESPONSE AFTER FINAL OFFICE ACTION  
EXPEDITED PROCEDURE  
EXAMINING GROUP 2134  
Docket No.: 1454.1302**

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

In re the Application of:

Martin EUCHNER

Serial No. 10/181,564

Group Art Unit: 2134

Confirmation No. 4619

Filed: July 18, 2002

Examiner: Tongoc Tran

For: METHOD, SYSTEM FOR TRANSMITTING DATA FROM A TRANSMITTER TO A  
RECEIVER, AND TRANSMITTER OR RECEIVER

**AMENDMENT AFTER FINAL REJECTION UNDER 37 CFR 1.116**

**AND**

**REQUEST FOR INTERVIEW WITH EXAMINER**

**MAIL STOP AF**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

This is in response to the final Office Action mailed October 19, 2006, and having a period for response set to expire on January 19, 2007. This Amendment After Final is timely filed on December 19, 2006 within two months from the final Office Action date.

Pursuant to the telephone conference with the Examiner on December 6, 2006 for scheduling an interview, it is respectfully requested the Examiner consider granting an interview based upon the amendment and remarks submitted to advance prosecution.

Entry of this amendment and reconsideration of the claims is respectfully requested, because it is believed the amendments and remarks clarify the patentably distinguishing features recited by the language of the claims without raising new issues, because the remarks apply the discussions of Sengodan specifically to the language of the amended claims, and

*Do not enter*  
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*1/9/07*



ITW  
RCE

S&H Form: PTO/SB/30 (12/04)

## REQUEST FOR CONTINUED EXAMINATION (RCE) TRANSMITTAL

(INCLUDING FILING FEE AND/OR PETITION FOR  
EXTENSION OF TIME FEE)

*Subsection (b) of 35 U.S.C. §132, effective May 29, 2000  
provides for continued examination of a utility or plant application  
filed on or after June 8, 1995.*

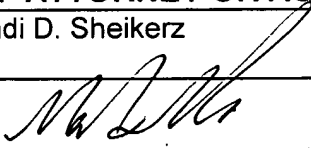
*See The American Inventors Protection Act of 1999 (AIPA)*

|                                                                                                                                                                                                                                                  |                                                                                                    |                                |             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------|-------------|
| To: <b>Commissioner for Patents</b><br><b>Box RCE</b><br><b>PO Box 1450</b><br><b>Alexandria, VA 22313-1450</b>                                                                                                                                  |                                                                                                    | Attorney Docket No.: 1454.1302 |             |
| First Named Inventor                                                                                                                                                                                                                             | Martin EUCHNER                                                                                     |                                |             |
| Application No.                                                                                                                                                                                                                                  | 10/181,564                                                                                         | Group Art Unit                 | 2134        |
| Filing Date                                                                                                                                                                                                                                      | July 18, 2002                                                                                      | Examiner                       | Tongoc Tran |
| CPA Filing Date                                                                                                                                                                                                                                  |                                                                                                    | Confirmation No                | 4619        |
| Title of Invention                                                                                                                                                                                                                               | METHOD, SYSTEM FOR TRANSMITTING DATA FROM A TRANSMITTER TO A RECEIVER, AND TRANSMITTER OR RECEIVER |                                |             |
| This is a Request for Continued Examination (RCE) under 37 C.F.R. §1.114 of the above-identified application.                                                                                                                                    |                                                                                                    |                                |             |
| 1.<br><b>Submission required under 37 C.F.R. §1.114 (Box a or b must be completed)</b>                                                                                                                                                           |                                                                                                    |                                |             |
| a. <input checked="" type="checkbox"/> Previously submitted                                                                                                                                                                                      |                                                                                                    |                                |             |
| i. <input checked="" type="checkbox"/> Consider the amendment(s)/reply under 37 C.F.R. § 1.116 previously filed on <u>December 19, 2006</u><br>(Any unentered amendment(s) referred to above will be entered).                                   |                                                                                                    |                                |             |
| ii. <input type="checkbox"/> Consider the arguments in the Appeal Brief or Reply Brief previously filed on ____                                                                                                                                  |                                                                                                    |                                |             |
| iii. <input type="checkbox"/> Other                                                                                                                                                                                                              |                                                                                                    |                                |             |
| b. <input type="checkbox"/> Enclosed                                                                                                                                                                                                             |                                                                                                    |                                |             |
| i. <input type="checkbox"/> Amendment/Reply                                                                                                                                                                                                      |                                                                                                    |                                |             |
| ii. <input type="checkbox"/> Affidavit(s)/Declaration(s)                                                                                                                                                                                         |                                                                                                    |                                |             |
| iii. <input type="checkbox"/> Information Disclosure Statement (IDS)                                                                                                                                                                             |                                                                                                    |                                |             |
| iv. <input type="checkbox"/> Other                                                                                                                                                                                                               |                                                                                                    |                                |             |
| 2.<br><b>Miscellaneous</b>                                                                                                                                                                                                                       |                                                                                                    |                                |             |
| a. <input type="checkbox"/> Suspension of action on the above-identified application is requested under 37 C.F.R. §103(c) for a period of _____ months. (Period of suspension shall not exceed 3 months; Fee under 37 C.F.R. §1.17(i) required). |                                                                                                    |                                |             |
| b. <input type="checkbox"/> Other                                                                                                                                                                                                                |                                                                                                    |                                |             |

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02 FC:1251

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|------------------|------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | <b>BASIC FEE</b>                                                                    |  | <b>\$</b>        | <b>790.00</b>    |
| Since an Official Action set an <u>original</u> due date of <u>January 19, 2007</u> , petition is hereby made for an extension of time to cover the date this RCE is filed, for which the requisite fee is enclosed (1 month (\$120.00)):                                                                                                                                                                                                           |  |                                                                                     |  |                  | 120.00           |
| Suspension Fee (\$130.00)                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                                                     |  |                  |                  |
| Total of above Calculations =                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                                                                     |  | <b>\$</b>        | <b>910.00</b>    |
| Reduction by 50% for filing by small entity (Note 37 C.F.R. 1.9, 1.27, 1.28).                                                                                                                                                                                                                                                                                                                                                                       |  |                                                                                     |  |                  |                  |
| <b>TOTAL FEES DUE =</b>                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                                                                     |  | <b>\$</b>        | <b>910.00</b>    |
| 4. <input type="checkbox"/> Small entity status:<br>a. <input type="checkbox"/> Verified Statement Claiming Small Entity Status.<br>b. <input type="checkbox"/> A Verified Statement Claiming Small Entity Status was previously filed and such status is still proper and desired.<br>c. <input type="checkbox"/> is no longer claimed.<br>5. <input type="checkbox"/> Other:                                                                      |  |                                                                                     |  |                  |                  |
| <b>6. METHOD OF PAYMENT</b>                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                                                                     |  |                  |                  |
| <input checked="" type="checkbox"/> A check in the amount of \$ <u>\$910.00</u> is enclosed.<br><input type="checkbox"/> Charge "TOTAL FEES DUE" to Deposit Account No. 19-3935. (A duplicate copy of this form is enclosed.)                                                                                                                                                                                                                       |  |                                                                                     |  |                  |                  |
| <b>7. GENERAL AUTHORIZATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                                                     |  |                  |                  |
| <input checked="" type="checkbox"/> The Commissioner is hereby authorized to credit any overpayment or charge any additional fees under 37 C.F.R. 1.16 (filing fees) or 37 C.F.R. 1.17 (processing fees) during the prosecution of this application and of any related application(s) claiming benefit hereof pursuant to 35 U.S.C. §120 to maintain pendency hereof and of any such related application to:<br><b>Deposit Account No. 19-3935.</b> |  |                                                                                     |  |                  |                  |
| <b>8. CORRESPONDENCE ADDRESS</b>                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                                                     |  |                  |                  |
| <p style="text-align: center;">STAAS &amp; HALSEY LLP</p>  <p style="text-align: center;"><b>21171</b></p> <p style="text-align: center;">PATENT TRADEMARK OFFICE</p>                                                                                                                                                                                            |  |                                                                                     |  |                  |                  |
| <b>9. SIGNATURE OF ATTORNEY OR AGENT REQUIRED</b>                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                     |  |                  |                  |
| NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | Mehdi D. Sheikerz                                                                   |  | REGISTRATION NO. | 41,307           |
| SIGNATURE                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  | DATE             | February 5, 2007 |

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.

| <b>PATENT APPLICATION FEE DETERMINATION RECORD</b><br>Substitute for Form PTO-875                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                               |                                  |                                    |               | Application or Docket Number<br><b>10/181,564</b> |                     | Filing Date<br><b>07/18/2002</b> |                         | <input type="checkbox"/> To be Mailed |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------|---------------|---------------------------------------------------|---------------------|----------------------------------|-------------------------|---------------------------------------|--|
| <b>APPLICATION AS FILED – PART I</b>                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                               |                                  |                                    |               |                                                   |                     |                                  |                         |                                       |  |
| (Column 1)                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                               |                                  | (Column 2)                         |               | SMALL ENTITY <input type="checkbox"/> OR          |                     | OTHER THAN SMALL ENTITY          |                         |                                       |  |
| FOR                                                                                                                                                                                                                                                                                                                                                                                                                                  | NUMBER FILED                                                                                                                                                                                                                  | NUMBER EXTRA                     | RATE (\$)                          | FEE (\$)      | OR                                                | RATE (\$)           | FEE (\$)                         |                         |                                       |  |
| <input type="checkbox"/> BASIC FEE<br>(37 CFR 1.16(a), (b), or (c))                                                                                                                                                                                                                                                                                                                                                                  | N/A                                                                                                                                                                                                                           | N/A                              | N/A                                |               |                                                   | N/A                 |                                  |                         |                                       |  |
| <input type="checkbox"/> SEARCH FEE<br>(37 CFR 1.16(k), (l), or (m))                                                                                                                                                                                                                                                                                                                                                                 | N/A                                                                                                                                                                                                                           | N/A                              | N/A                                |               |                                                   | N/A                 |                                  |                         |                                       |  |
| <input type="checkbox"/> EXAMINATION FEE<br>(37 CFR 1.16(o), (p), or (q))                                                                                                                                                                                                                                                                                                                                                            | N/A                                                                                                                                                                                                                           | N/A                              | N/A                                |               |                                                   | N/A                 |                                  |                         |                                       |  |
| TOTAL CLAIMS<br>(37 CFR 1.16(i))                                                                                                                                                                                                                                                                                                                                                                                                     | minus 20 =                                                                                                                                                                                                                    | *                                | X \$                               | =             |                                                   | X \$                | =                                |                         |                                       |  |
| INDEPENDENT CLAIMS<br>(37 CFR 1.16(h))                                                                                                                                                                                                                                                                                                                                                                                               | minus 3 =                                                                                                                                                                                                                     | *                                | X \$                               | =             |                                                   | X \$                | =                                |                         |                                       |  |
| <input type="checkbox"/> APPLICATION SIZE FEE<br>(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). |                                  |                                    |               |                                                   |                     |                                  |                         |                                       |  |
| <input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                               |                                  |                                    |               |                                                   |                     |                                  |                         |                                       |  |
| * If the difference in column 1 is less than zero, enter "0" in column 2.                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                               |                                  | TOTAL                              |               |                                                   | TOTAL               |                                  |                         |                                       |  |
| <b>APPLICATION AS AMENDED – PART II</b>                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                               |                                  |                                    |               |                                                   |                     |                                  |                         |                                       |  |
| (Column 1)                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                               | (Column 2)                       |                                    | (Column 3)    |                                                   | SMALL ENTITY OR     |                                  | OTHER THAN SMALL ENTITY |                                       |  |
| AMENDMENT                                                                                                                                                                                                                                                                                                                                                                                                                            | 02/05/2007                                                                                                                                                                                                                    | CLAIMS REMAINING AFTER AMENDMENT | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA | RATE (\$)                                         | ADDITIONAL FEE (\$) | OR                               | RATE (\$)               | ADDITIONAL FEE (\$)                   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                      | Total (37 CFR 1.16(i))                                                                                                                                                                                                        | * 28                             | Minus                              | ** 29         | =                                                 | 0                   |                                  | X \$50=                 | 0                                     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                      | Independent (37 CFR 1.16(h))                                                                                                                                                                                                  | * 5                              | Minus                              | ***5          | =                                                 | 0                   |                                  | X \$200=                | 0                                     |  |
| <input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                               |                                  |                                    |               |                                                   |                     |                                  |                         |                                       |  |
| <input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                               |                                  |                                    |               |                                                   |                     |                                  |                         |                                       |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                               |                                  |                                    |               | TOTAL ADD'L FEE                                   |                     |                                  | TOTAL ADD'L FEE         | 0                                     |  |
| (Column 1)                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                               | (Column 2)                       |                                    | (Column 3)    |                                                   | SMALL ENTITY OR     |                                  | OTHER THAN SMALL ENTITY |                                       |  |
| AMENDMENT                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                               | CLAIMS REMAINING AFTER AMENDMENT | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA | RATE (\$)                                         | ADDITIONAL FEE (\$) | OR                               | RATE (\$)               | ADDITIONAL FEE (\$)                   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                      | Total (37 CFR 1.16(i))                                                                                                                                                                                                        | *                                | Minus                              | **            | =                                                 |                     |                                  | X \$                    | =                                     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                      | Independent (37 CFR 1.16(h))                                                                                                                                                                                                  | *                                | Minus                              | ***           | =                                                 |                     |                                  | X \$                    | =                                     |  |
| <input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                               |                                  |                                    |               |                                                   |                     |                                  |                         |                                       |  |
| <input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                               |                                  |                                    |               |                                                   |                     |                                  |                         |                                       |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                               |                                  |                                    |               | TOTAL ADD'L FEE                                   |                     |                                  | TOTAL ADD'L FEE         |                                       |  |
| <p>* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.</p> <p>** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".</p> <p>*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".</p> <p>The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.</p> |                                                                                                                                                                                                                               |                                  |                                    |               |                                                   |                     |                                  |                         |                                       |  |

Legal Instrument Examiner:  
Rozenia Harmon

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.

*2/5/07*

In re the Application  
of  
**Martin EUCHNER**  
Serial No. 10/18  
Confirmation No.

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

**Martin EUCHNER**

**Group Art Unit: 2134**

**Filed: July 18, 2002**

**Examiner: Tongoc Tran**

**For: METHOD, SYSTEM FOR TRANSMITTING DATA FROM A TRANSMITTER TO A RECEIVER, AND TRANSMITTER OR RECEIVER**

**AND**

**MAIL STOP AF**  
**Commissioner for Patents**  
**PO Box 1450**  
**Alexandria, VA 22313-1450**

**This is in response to the final Office Action mailed October 19, 2006, and having a period for response set to expire on January 19, 2007. This Amendment After Final is timely filed on December 19, 2006 within two months from the final Office Action date.**

Pursuant to the telephone conference with the Examiner on December 6, 2006 for scheduling an interview, it is respectfully requested the Examiner consider granting an interview based upon the amendment and remarks submitted to advance prosecution.

Entry of this amendment and reconsideration of the claims is respectfully requested, because it is believed the amendments and remarks clarify the patentably distinguishing features recited by the language of the claims without raising new issues, because the remarks apply the discussions of Sengodan specifically to the language of the amended claims, and



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
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P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

21171 7590 05/01/2007

STAAS & HALSEY LLP  
SUITE 700  
1201 NEW YORK AVENUE, N.W.  
WASHINGTON, DC 20005

EXAMINER

TRAN, TONGOC

ART UNIT

PAPER NUMBER

2134

DATE MAILED: 05/01/2007

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
|-----------------|-------------|----------------------|---------------------|------------------|

10/181,564

07/18/2002

Martin Euchner

1454.1302

4619

TITLE OF INVENTION: METHOD, SYSTEM FOR TRANSMITTING DATA FROM A TRANSMITTER TO A RECEIVER AND TRANSMITTER OR RECEIVER

| APPLN. TYPE    | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO           | \$1400        | \$300               | \$0                  | \$1700           | 08/01/2007 |

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 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)

21171 7590 05/01/2007

**STAAS & HALSEY LLP**  
SUITE 700  
1201 NEW YORK AVENUE, N.W.  
WASHINGTON, DC 20005

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. |
|-----------------|-------------|----------------------|---------------------|------------------|
|-----------------|-------------|----------------------|---------------------|------------------|

10/181,564 07/18/2002 Martin Euchner 1454.1302 4619

**TITLE OF INVENTION:** METHOD, SYSTEM FOR TRANSMITTING DATA FROM A TRANSMITTER TO A RECEIVER AND TRANSMITTER OR RECEIVER

| APPLN. TYPE    | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO           | \$1400        | \$300               | \$0                  | \$1700           | 08/01/2007 |

| EXAMINER     | ART UNIT | CLASS-SUBCLASS |
|--------------|----------|----------------|
| TRAN, TONGOC | 2134     | 713-152000     |

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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# 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.                                                                       | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---------------------------------------------------------------------------------------|-------------|----------------------|---------------------|------------------|
| 10/181,564                                                                            | 07/18/2002  | Martin Euchner       | 1454.1302           | 4619             |
| 21171                                                                                 | 7590        | 05/01/2007           | EXAMINER            |                  |
| STAAS & HALSEY LLP<br>SUITE 700<br>1201 NEW YORK AVENUE, N.W.<br>WASHINGTON, DC 20005 |             |                      | TRAN, TONGOC        |                  |
|                                                                                       |             |                      | ART UNIT            | PAPER NUMBER     |
|                                                                                       |             |                      | 2134                |                  |
| DATE MAILED: 05/01/2007                                                               |             |                      |                     |                  |

## 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 699 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 699 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.

# Notice of Allowability

Application No.

10/181,564

Examiner

Tongoc Tran

Applicant(s)

EUCHNER, MARTIN

Art Unit

2134

## -- 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 2/5/2007.
2. ☒ The allowed claim(s) is/are 17 and 19-45.
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 \_\_\_\_\_

  
KAMBIZ ZAND  
SUPERVISORY PATENT EXAMINER

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p. 602

### DETAILED ACTION

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 2/5/2007 has been entered. Claims 17 and 42-45 have been amended. Claim 18 has been canceled. Claims 17-45 are pending.

### ***Allowable Subject Matter***

2. Claims 17 and 19--45 are allowed.

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

The claimed invention is directed to providing authentication from a transmitter to a receiver at a Real Time Transport Protocol (RTP) packet level as an application protocol on an application layer by inserting at the transmitter an authentication data at the end of a whole RTP packet payload and based on the RTP packet level authentication, a receiver accepts the whole RTP packet payload if the receiver knows the transmitter based on the RTP packet level authentication data. The closest prior art, Sengodan et al., teaches the similar invention of inserting an authentication data at the

Art Unit: 2134

end of a whole RTP packet. Segodan discloses in col. 3, line 65 to col. 4, line 11, "Currently, there exist mechanism for providing encryption at the IP level and at the RTP level...in an environment where several mini-packets are multiplexed into an [RTP] packet, no suitable encryption (and corresponding padding) mechanism has been proposed. Since the different mini-packets may belong to different streams, it may be desirable to apply different encryption schemes to the different mini-packets at the IP level, but no such mechanism has been proposed to date for authentication at the mini-packet level...It can also be seen then that there is a need for a mechanism to perform authentication at the mini-packet level". Therefore, it is interpreted that a mini-RTP packet is considered to be different from the RTP packet and at the time of Sengodan's invention, there is no mechanism for authentication at the RTP level and the claimed invention of inserting the authentication data at the end of the whole RTP packet is considered a different technique from inserting the authentication data at the end of the mini-RTP packets. The cited prior art, either singularly or in combination fail to anticipate or render the claimed invention obvious.

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."

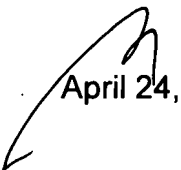
### ***Conclusion***

Art Unit: 2134

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tongoc Tran whose telephone number is (571) 272-3843. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kambiz Zand can be reached on (571) 272-3811. 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.



April 24, 2007



KAMBIZ ZAND  
SUPERVISORY PATENT EXAMINER

RESPONSE AFTER FINAL OFFICE ACTION  
EXPEDITED PROCEDURE  
EXAMINING GROUP 2134  
Docket No.: 1454.1302

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Martin EUCHNER

Serial No. 10/181,564

Group Art Unit: 2134

Confirmation No. 4619

Filed: July 18, 2002

Examiner: Tongoc Tran

For: METHOD, SYSTEM FOR TRANSMITTING DATA FROM A TRANSMITTER TO A  
RECEIVER, AND TRANSMITTER OR RECEIVER

AMENDMENT AFTER FINAL REJECTION UNDER 37 CFR 1.116

AND

REQUEST FOR INTERVIEW WITH EXAMINER

MAIL STOP AF  
Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

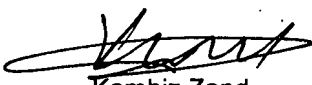
This is in response to the final Office Action mailed October 19, 2006, and having a period for response set to expire on January 19, 2007. This Amendment After Final is timely filed on December 19, 2006 within two months from the final Office Action date.

Pursuant to the telephone conference with the Examiner on December 8, 2006 for scheduling an interview, it is respectfully requested the Examiner consider granting an interview based upon the amendment and remarks submitted to advance prosecution.

Entry of this amendment and reconsideration of the claims is respectfully requested, because it is believed the amendments and remarks clarify the patentably distinguishing features recited by the language of the claims without raising new issues, because the remarks apply the discussions of Sengodan specifically to the language of the amended claims, and

Enter  
With RCE  
filed 2-5-07  
B.H.  
4-27-07  
~~Not entered~~  
H.H.  
H.H.

|                                                                                                                  |                                              |                                                                   |
|------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------|
| <b>Issue Classification</b><br> | <b>Application/Control No.</b><br>10/181,564 | <b>Applicant(s)/Patent under Reexamination</b><br>EUCHNER, MARTIN |
|                                                                                                                  | <b>Examiner</b><br>Tongoc Tran               | <b>Art Unit</b><br>2134                                           |

| ISSUE CLASSIFICATION                       |                                   |          |     |  |                                                                                                                               |    |   |   |        |                             |  |  |   |
|--------------------------------------------|-----------------------------------|----------|-----|--|-------------------------------------------------------------------------------------------------------------------------------|----|---|---|--------|-----------------------------|--|--|---|
| ORIGINAL                                   |                                   |          |     |  | INTERNATIONAL CLASSIFICATION                                                                                                  |    |   |   |        |                             |  |  |   |
| CLASS                                      |                                   | SUBCLASS |     |  | CLAIMED                                                                                                                       |    |   |   |        | NON-CLAIMED                 |  |  |   |
| 713                                        |                                   | 152      |     |  | H                                                                                                                             | 00 | 4 | L | /29/00 |                             |  |  | / |
| CROSS REFERENCES                           |                                   |          |     |  |                                                                                                                               |    |   |   | /      |                             |  |  | / |
| CLASS                                      | SUBCLASS (ONE SUBCLASS PER BLOCK) |          |     |  |                                                                                                                               |    |   |   | /      |                             |  |  | / |
| 713                                        | 151                               | 161      | 168 |  |                                                                                                                               |    |   |   | /      |                             |  |  | / |
|                                            |                                   |          |     |  |                                                                                                                               |    |   |   | /      |                             |  |  | / |
|                                            |                                   |          |     |  |                                                                                                                               |    |   |   | /      |                             |  |  | / |
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|                                            |                                   |          |     |  |                                                                                                                               |    |   |   | /      |                             |  |  | / |
|                                            |                                   |          |     |  |                                                                                                                               |    |   |   | /      |                             |  |  | / |
| Tongoc Tran<br>(Assistant Examiner) (Date) |                                   |          |     |  | <br>Kambiz Zand<br>(Primary Examiner) (Date) |    |   |   |        | Total Claims Allowed: 28    |  |  |   |
| (Legal Instruments Examiner) (Date)        |                                   |          |     |  |                                                                                                                               |    |   |   |        | O.G.<br>Print Claim(s)<br>1 |  |  |   |

| <input type="checkbox"/> Claims renumbered in the same order as presented by applicant |          |       |          | <input type="checkbox"/> CPA |          |       |          | <input type="checkbox"/> T.D. |          |       |          | <input type="checkbox"/> R.1.47 |          |       |          |
|----------------------------------------------------------------------------------------|----------|-------|----------|------------------------------|----------|-------|----------|-------------------------------|----------|-------|----------|---------------------------------|----------|-------|----------|
| Final                                                                                  | Original | Final | Original | Final                        | Original | Final | Original | Final                         | Original | Final | Original | Final                           | Original | Final | Original |
|                                                                                        | 1        |       | 13       | 31                           |          | 61    |          | 91                            |          | 121   |          | 151                             |          | 181   |          |
|                                                                                        | 2        |       | 14       | 32                           |          | 62    |          | 92                            |          | 122   |          | 152                             |          | 182   |          |
|                                                                                        | 3        |       | 15       | 33                           |          | 63    |          | 93                            |          | 123   |          | 153                             |          | 183   |          |
|                                                                                        | 4        |       | 9        | 34                           |          | 64    |          | 94                            |          | 124   |          | 154                             |          | 184   |          |
|                                                                                        | 5        |       | 10       | 35                           |          | 65    |          | 95                            |          | 125   |          | 155                             |          | 185   |          |
|                                                                                        | 6        |       | 11       | 36                           |          | 66    |          | 96                            |          | 126   |          | 156                             |          | 186   |          |
|                                                                                        | 7        |       | 3        | 37                           |          | 67    |          | 97                            |          | 127   |          | 157                             |          | 187   |          |
|                                                                                        | 8        |       | 4        | 38                           |          | 68    |          | 98                            |          | 128   |          | 158                             |          | 188   |          |
|                                                                                        | 9        |       | 5        | 39                           |          | 69    |          | 99                            |          | 129   |          | 159                             |          | 189   |          |
|                                                                                        | 10       |       | 6        | 40                           |          | 70    |          | 100                           |          | 130   |          | 160                             |          | 190   |          |
|                                                                                        | 11       |       | 7        | 41                           |          | 71    |          | 101                           |          | 131   |          | 161                             |          | 191   |          |
|                                                                                        | 12       |       | 25       | 42                           |          | 72    |          | 102                           |          | 132   |          | 162                             |          | 192   |          |
|                                                                                        | 13       |       | 26       | 43                           |          | 73    |          | 103                           |          | 133   |          | 163                             |          | 193   |          |
|                                                                                        | 14       |       | 27       | 44                           |          | 74    |          | 104                           |          | 134   |          | 164                             |          | 194   |          |
|                                                                                        | 15       |       | 28       | 45                           |          | 75    |          | 105                           |          | 135   |          | 165                             |          | 195   |          |
|                                                                                        | 16       |       |          | 46                           |          | 76    |          | 106                           |          | 136   |          | 166                             |          | 196   |          |
| 1                                                                                      | 17       |       |          | 47                           |          | 77    |          | 107                           |          | 137   |          | 167                             |          | 197   |          |
|                                                                                        | 18       |       |          | 48                           |          | 78    |          | 108                           |          | 138   |          | 168                             |          | 198   |          |
| 2                                                                                      | 19       |       |          | 49                           |          | 79    |          | 109                           |          | 139   |          | 169                             |          | 199   |          |
| 8                                                                                      | 20       |       |          | 50                           |          | 80    |          | 110                           |          | 140   |          | 170                             |          | 200   |          |
| 12                                                                                     | 21       |       |          | 51                           |          | 81    |          | 111                           |          | 141   |          | 171                             |          | 201   |          |
| 16                                                                                     | 22       |       |          | 52                           |          | 82    |          | 112                           |          | 142   |          | 172                             |          | 202   |          |
| 17                                                                                     | 23       |       |          | 53                           |          | 83    |          | 113                           |          | 143   |          | 173                             |          | 203   |          |
| 18                                                                                     | 24       |       |          | 54                           |          | 84    |          | 114                           |          | 144   |          | 174                             |          | 204   |          |
| 19                                                                                     | 25       |       |          | 55                           |          | 85    |          | 115                           |          | 145   |          | 175                             |          | 205   |          |
| 20                                                                                     | 26       |       |          | 56                           |          | 86    |          | 116                           |          | 146   |          | 176                             |          | 206   |          |
| 23                                                                                     | 27       |       |          | 57                           |          | 87    |          | 117                           |          | 147   |          | 177                             |          | 207   |          |
| 24                                                                                     | 28       |       |          | 58                           |          | 88    |          | 118                           |          | 148   |          | 178                             |          | 208   |          |
| 21                                                                                     | 29       |       |          | 59                           |          | 89    |          | 119                           |          | 149   |          | 179                             |          | 209   |          |
| 22                                                                                     | 30       |       |          | 60                           |          | 90    |          | 120                           |          | 150   |          | 180                             |          | 210   |          |

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p. 607

**Search Notes**

Application/Control No.

10/181,564

Examiner

Tongoc Tran

Applicant(s)/Patent under  
Reexamination

EUCHNER, MARTIN

Art Unit

2134

**SEARCHED**

| Class | Subclass                        | Date      | Examiner |
|-------|---------------------------------|-----------|----------|
| 713   | 151-153,<br>160-162,<br>168,178 | 4/24/2007 | T.T.     |
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**INTERFERENCE SEARCHED**

| Class | Subclass | Date      | Examiner |
|-------|----------|-----------|----------|
| 713   | 151-153  | 4/24/2007 | TT       |
| 713   | 160-162, | 4/24/2007 | TT       |
| 713   | 168,178  | 4/24/2007 | TT       |
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**SEARCH NOTES  
(INCLUDING SEARCH STRATEGY)**

|                                              | DATE      | EXMR |
|----------------------------------------------|-----------|------|
| East                                         | 4/24/2007 | TT   |
| Inventor name search                         | 4/24/2007 | TT   |
| Consult: Patrice Winder, primary AU:<br>2145 | 4/24/2007 | TT   |
| ACM, IEEE, Google.                           | 4/24/2007 | TT   |
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# Index of Claims



Application/Control No.

10/181,564

Examiner

Tongoc Tran

Applicant(s)/Patent under Reexamination

EUCHNER, MARTIN

Art Unit

2134

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## EAST Search History

| Ref # | Hits | Search Query                                       | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|----------------------------------------------------|-------|------------------|---------|------------------|
| S54   | 1    | S53 and @ad<"20000101"                             | USPAT | OR               | OFF     | 2007/04/24 18:13 |
| S55   | 81   | rtp with (authentication or security or integrity) | USPAT | OR               | OFF     | 2007/04/24 18:14 |
| S56   | 30   | S55 and @ad<"20000101"                             | USPAT | OR               | OFF     | 2007/04/24 18:29 |
| S57   | 597  | ip near4 rtp                                       | USPAT | OR               | OFF     | 2007/04/24 18:29 |
| S58   | 1    | ip near4 rtp near10 authentication                 | USPAT | OR               | OFF     | 2007/04/24 18:29 |
| S59   | 597  | ip near4 rtp                                       | USPAT | OR               | OFF     | 2007/04/24 18:29 |
| S60   | 177  | S59 and @ad<"20000101"                             | USPAT | OR               | OFF     | 2007/04/24 18:30 |
| S61   | 61   | S60 and authentication                             | USPAT | OR               | OFF     | 2007/04/24 18:30 |

## EAST Search History

| Ref # | Hits | Search Query                                                                                                                          | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---------------------------------------------------------------------------------------------------------------------------------------|-------|------------------|---------|------------------|
| L1    | 482  | rtp.clm.                                                                                                                              | USPAT | OR               | OFF     | 2007/04/24 20:13 |
| L2    | 2022 | authentication adj data.clm. or mac. clm.                                                                                             | USPAT | OR               | OFF     | 2007/04/24 20:14 |
| L3    | 6148 | authentication adj data.clm. or mac. clm. or authentication.clm.                                                                      | USPAT | OR               | OFF     | 2007/04/24 20:14 |
| L4    | 11   | l1 and l3                                                                                                                             | USPAT | OR               | OFF     | 2007/04/24 20:14 |
| L5    | 3    | l4 and @ad<"20000101",                                                                                                                | USPAT | OR               | OFF     | 2007/04/24 20:14 |
| L6    | 3    | l4 and @ad<"20000101"                                                                                                                 | USPAT | OR               | OFF     | 2007/04/24 20:22 |
| L7    | 954  | (rtp or "realtime transport protocol" or "real time transport protocol" or "real time protocol") and (authenticat\$4 or MAC)          | USPAT | OR               | OFF     | 2007/04/24 20:23 |
| L8    | 85   | (rtp or "realtime transport protocol" or "real time transport protocol" or "real time protocol") with (authenticat\$4 or MAC)         | USPAT | OR               | OFF     | 2007/04/24 20:23 |
| L9    | 16   | l8 and @ad<"20000101"                                                                                                                 | USPAT | OR               | OFF     | 2007/04/24 20:32 |
| L10   | 2018 | 713/151,152,153,160,161,162,168, 178.ccis.                                                                                            | USPAT | OR               | OFF     | 2007/04/24 20:34 |
| L11   | 3    | l10 and (rtp or "realtime transport protocol" or "real time protocol" or "real time transport protocol") with (authenticat\$4 or mac) | USPAT | OR               | OFF     | 2007/04/24 20:42 |
| L12   | 4    | euchner.in. and martin                                                                                                                | USPAT | OR               | OFF     | 2007/04/24 20:54 |



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1 [Broadband application transport service and management](#)

Zhenjun Zhu, Gerald Winters, Patrick Martin, Hussein T. Mouftah

November 1996 **Proceedings of the 1996 conference of the Centre for Advanced Studies on Collaborative research CASCON '96**

**Publisher:** IBM Press

Full text available: pdf(227.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Multimedia applications using broadband networking technologies (for example, Asynchronous Transfer Mode) often require services not provided by standard transport layer middleware, such as TCP or TP4. A broadband transport service must provide support for QoS (quality of service) control, multiparty control, synchronization, packet sequence reconstruction, and direct data-link access. Management of a broadband transport service also plays an important role. For example, management information c ...

2 [rtpmon: a third-party RTCP monitor](#)



David Bacher, Andrew Swan, Lawrence A. Rowe

February 1997 **Proceedings of the fourth ACM international conference on Multimedia MULTIMEDIA '96**

**Publisher:** ACM Press

Full text available: pdf(410.80 KB) Additional Information: [full citation](#), [citations](#), [index terms](#)

**Keywords:** MBone debugging tool, RTP session monitor

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### 1 [The transport layer: tutorial and survey](#)



Sami Iren, Paul D. Amer, Phillip T. Conrad

December 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 4

Publisher: ACM Press

Full text available: pdf(261.78 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Transport layer protocols provide for end-to-end communication between two or more hosts. This paper presents a tutorial on transport layer concepts and terminology, and a survey of transport layer services and protocols. The transport layer protocol TCP is used as a reference point, and compared and contrasted with nineteen other protocols designed over the past two decades. The service and protocol features of twelve of the most important protocols are summarized in both text and tables. < ...

**Keywords:** TCP/IP networks, congestion control, flow control, transport protocol, transport service



### 2 [An architecture for a secure service discovery service](#)



Steven E. Czerwinski, Ben-Y. Zhao, Todd D. Hodes, Anthony D. Joseph, Randy H. Katz

August 1999 **Proceedings of the 5th annual ACM/IEEE international conference on****Mobile computing and networking MobiCom '99**

Publisher: ACM Press

Full text available: pdf(1.47 MB)

 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

### 3 [Mobile networking in the Internet](#)

Charles E. Perkins

December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: pdf(166.90 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Computers capable of attaching to the Internet from many places are likely to grow in popularity until they dominate the population of the Internet. Consequently, protocol research has shifted into high gear to develop appropriate network protocols for supporting mobility. This introductory article attempts to outline some of the many

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promising and interesting research directions. The papers in this special issue indicate the diversity of viewpoints within the research community, and it is ...

#### 4 Composable ad-hoc mobile services for universal interaction



Todd D. Hodes, Randy H. Katz, Edouard Servan-Schreiber, Lawrence Rowe

September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking MobiCom '97**

Publisher: ACM Press

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IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

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IEEE STD IEEE Standard

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Digital Object Identifier 10.1109/ICC.1999.765484  
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- ☐ 2. **A survey of security issues in multicast communications**  
Moyer, M.J.; Rao, J.R.; Rohatgi, P.;  
[Network, IEEE](#)  
Volume 13, Issue 6, Nov.-Dec. 1999 Page(s):12 - 23  
Digital Object Identifier 10.1109/65.806981  
[AbstractPlus](#) | Full Text: [PDF\(1156 KB\)](#) IEEE JNL  
[Rights and Permissions](#)
- ☐ 3. **An integrated management environment for network resources and servi**  
Bellavista, P.; Corradi, A.; Stefanelli, C.;  
[Selected Areas in Communications, IEEE Journal on](#)  
Volume 18, Issue 5, May 2000 Page(s):676 - 685  
Digital Object Identifier 10.1109/49.842984  
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(1188 KB\)](#) IEEE JNL  
[Rights and Permissions](#)
- ☐ 4. **Securing QoS threats to RSVP messages and their countermeasures**  
Tsung-Li Wu; Wu, S.F.; Zhi Fu; He Huang; Fengmin Gong;  
[Quality of Service, 1999. IWQoS '99. 1999 Seventh International Workshop on](#)  
31 May-4 June 1999 Page(s):62 - 64  
Digital Object Identifier 10.1109/IWQOS.1999.766479  
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## » Key

IEEE JNL IEEE Journal or Magazine

IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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- ☐ 1. **Security implications of adaptive multimedia distribution**  
Parks, T.M.; Kassay, D.A.; Weinstein, C.J.;  
[Communications, 1999. ICC '99. 1999 IEEE International Conference on](#)  
Volume 3, 6-10 June 1999 Page(s):1563 - 1567 vol.3  
Digital Object Identifier 10.1109/ICC.1999.765484  
[AbstractPlus](#) | Full Text: [PDF\(484 KB\)](#) IEEE CNF  
[Rights and Permissions](#)
- ☐ 2. **Information technology - telecommunications and information exchange systems - local and metropolitan area networks - specific requirements. Part 5: token ring access method and physical layer specifications**  
10 March 2000  
[AbstractPlus](#) | Full Text: [PDF\(1416 KB\)](#) IEEE STD
- ☐ 3. **A survey of security issues in multicast communications**  
Moyer, M.J.; Rao, J.R.; Rohatgi, P.;  
[Network, IEEE](#)  
Volume 13, Issue 6, Nov.-Dec. 1999 Page(s):12 - 23  
Digital Object Identifier 10.1109/65.806981  
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- ☐ 5. **Securing QoS threats to RSVP messages and their countermeasures**  
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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:

Martin EUCHNER

Application No.:

Group Art Unit:

Filed: (concurrently)

Examiner:

For: METHOD, SYSTEM FOR TRANSMITTING DATA FROM A TRANSMITTER TO A RECEIVER, AND TRANSMITTER OR RECEIVER

**INFORMATION DISCLOSURE STATEMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

In accordance with the duty of disclosure provisions of 37 CFR § 1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application. It is requested that the Examiner make this information of record if it is deemed material to the examination of the subject application.

1. Enclosures accompanying this Information Disclosure Statement are:

- 1a. ☒ Form PTO-1449.
- 1b. ☒ Copies of IDS citations.
- 1c. ☒ An English language copy of search report(s) from a counterpart foreign application or a PCT International Search Report.
- 1d. ☐ English language translation (complete or relevant portion(s)) attached to each non-English language publication.
- 1e. ☐ Explanations of Relevancy of References (ATTACHMENT 1(e), hereto) for providing a concise explanation of each non-English publication.

2. ☒ In accordance with 37 CFR § 1.98, a concise explanation of what is presently understood to be the relevance of each non-English language publication is

(Check appropriate Items 2a, 2b, 2c and/or 2d)

- 2a. ☐ satisfied because all non-English language publications were cited on the enclosed "English-language version of the search report or action which indicates the degree of relevance found by the foreign office". (See MPEP 609, Minimum Requirements for an Information Disclosure Statement, Part A(3): Concise Explanation of Relevance, pp. 600-100 to 600-101, Rev. 1, Feb. 2000.)
- 2b. ☒ set forth in the application.

- 2c. ☐ satisfied because an English language translation (complete or relevant portion(s)) is attached to each non-English language publication.
- 2d. ☐ enclosed as Attachment 1(e), hereto.
3. No admission is made that the information cited in this Statement is, or is considered to be, material to patentability nor a representation that a search has been made (other than search report(s) from a counterpart foreign application or a PCT International Search Report, if submitted herewith). 37 CFR §§ 1.97(g) and (h).

Respectfully submitted,

STAAS & HALSEY LLP

Dated: 7/18/02  
700 Eleventh Street, N.W., Suite 500  
Washington, D.C. 20001  
Telephone: (202) 434-1500  
Facsimile: (202) 434-1501

By: Richard A. Gollhofer  
Richard A. Gollhofer  
Registration No. 31,106

|                                                                                              |                                                            |                                               |                 |
|----------------------------------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------|-----------------|
| FORM PTO-1449                                                                                | U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE | ATTORNEY DOCKET NO.<br><b>1454.1302</b>       | APPLICATION NO. |
| <b>LIST OF REFERENCES CITED BY APPLICANT</b><br><br><i>(Use several sheets if necessary)</i> |                                                            | FIRST NAMED INVENTOR<br><b>Martin EUCHNER</b> |                 |
|                                                                                              |                                                            | FILING DATE                                   | GROUP ART UNIT  |

### U.S. PATENT DOCUMENTS

| *EXAMINER<br>INITIAL |    | DOCUMENT<br>NO. | DATE | NAME | CLASS | SUB-<br>CLASS | FILING<br>DATE |
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### FOREIGN PATENT DOCUMENTS

|  |    | DOCUMENT<br>NO. | DATE   | COUNTRY | CLASS | SUB-<br>CLASS | TRANSLATION<br>YES NO |  |
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|  | AD | 99/11019        | 3/4/99 | WIPO    |       |               |                       |  |
|  | AE |                 |        |         |       |               |                       |  |

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|  |    |                                                                                                                                                                         |
|--|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | AF | Ray Hunt, "Internet/Intranet Firewall Security-Policy, Architecture and Transaction Services, Computer Communications, vol. 21, No. 13, September 1998, pages 1107-1123 |
|  | AG | Andrew S. Tanenbaum, "Computer-Netzwerke", Wolfram's Fachverlag, Attenkirchen 1992, pages 17-32                                                                         |
|  | AH | Christoph Ruland, "Informationssicherheit in Datennetzen", DATACOM-VERLAG, Bergheim 1993, pages 61-63 and 68-79                                                         |
|  | AI | H. Schulzrinne: "RTP: A Transport Protocol for Real-Time Applications; Internet Engineering Task Force", RFC 1889, 1996, pages 1-75                                     |
|  | AJ | D. Harkins, et al., "The Internet Key Exchange (IKE)" Internet Engineering Task Force, RFC 2409, 1998, pages 1-41                                                       |
|  | AK | S. Kent et al. "Internet Engineering Task Force", RFC 2402, 1998, pages 1-22                                                                                            |
|  | AL | S. Kent et al. "Internet Task Force", RFC 2406, 1998, pages 1-22                                                                                                        |
|  |    |                                                                                                                                                                         |

|                                                                                                                                                                                                                                                          |                 |
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| <small>*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.</small> |                 |

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PCT TRANSMITTAL; FEE TRANSMITTAL, GERMAN APPLICATION WITH 3 SHEETS OF DRAWINGS ATTACHED;  
ENGLISH TRANSLATION WITH 3 SHEETS OF FORMAL DRAWINGS; PRELIMINARY AMENDMENT; SUBSTITUTE  
SPECIFICATION AND MARKED-UP SPECIFICATION; INFORMATION DISCLOSURE STATEMENT WITH 7  
REFERENCES; COPIES OF INT'L SEARCH REPORT, IPER AND FIRST PAGE OF PUBLISHED INT'L  
APPLICATION; DECLARATION; ASSIGNMENT WITH ASSIGNMENT COVERSHEET AND CHECK FOR \$1,140.00

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APPLICANT(S): Martin EUCHNER

SERIAL NO: NEW PCT NATIONAL PHASE APPLICATION

CONFIRMATION NO.

TITLE: METHOD, SYSTEM FOR TRANSMITTING DATA FROM A TRANSMITTER  
TO A RECEIVER, AND TRANSMITTER OR RECEIVER

FILING DATE: JULY 18, 2002

DOCKET NO: 1454.1302/RAG:fc

DUE DATE: JULY 18, 2002



(25)

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Response Due 1-5-06



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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/181,564      | 07/18/2002  | Martin Euchner       | 1454.1302           | 4619             |

21171 7590 10/05/2005

STAAS & HALSEY LLP  
SUITE 700  
1201 NEW YORK AVENUE, N.W.  
WASHINGTON, DC 20005

**COPY**

EXAMINER

TRAN, TONGOC

ART UNIT PAPER NUMBER

2134

DATE MAILED: 10/05/2005

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

OCT 07 2005

## Office Action Summary

Application No.

10/18,564

Applicant(s)

CHARPENTIER, FREDERIC JEAN-LUC

Examiner

Tongoc Tran

Art Unit

2134

-- 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 18 July 2002.
- 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) 1-16 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) 1-16 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-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 7/18/2002.

- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

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p. 623

### **DETAILED ACTION**

1. This office action is in response to Applicant's Application Serial No. 10/181564 filed on September 18, 2002. Claims 1-16 are pending.

#### ***Information Disclosure Statement***

2. The information disclosure statement (IDS) submitted on July 18, 2002 has been considered by the Examiner.

#### ***Claim Rejections - 35 USC § 102***

3. 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 –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-26 are rejected under 35 U.S.C. 102(b) as being anticipated by Chen et al. (WO 99/11019, hereinafter Chen).

In respect to claim 1, Chen discloses the method for transmitting data from a transmitter to a receiver, a) in which the transmitter extends the data by authentication data using an application protocol on the application layer; b) in which the authentication data are used by the receiver to ascertain whether it knows the transmitter; c) in which, if the receiver knows the transmitter, the data are accepted, otherwise the data are rejected (see Abstract, page 1, 1<sup>st</sup> paragraph, page 8, 3<sup>rd</sup> paragraph – page 9, 1<sup>st</sup>

paragraph and page 11, 2<sup>nd</sup> paragraph).

In respect to claim 2, Chen discloses the method as claimed in claim 1, in which the data are transmitted on a packet-oriented basis (see page 9, 2<sup>nd</sup> paragraph).

In respect to claim 3, Chen discloses the method as claimed in one of the preceding claims, in which the authentication data are determined by virtue of at least part of a protocol data unit, available on the application layer, of the application protocol being linked to a secret by the transmitter (see page 11, 2<sup>nd</sup> paragraph).

In respect to claim 4, Chen discloses the method as claimed in claim 3, in which the linking to the secret is carried out by virtue of a) cryptographic linking to at least one further parameter, particularly by virtue of an encryption operation and/or b) a cryptographic checksum and key information (see page 11, 2<sup>nd</sup> paragraph).

In respect to claim 5, Chen discloses the method as claimed in one of the preceding claims, in which verification at the receiver end determines whether or not the receiver knows the transmitter (see page 11, 2<sup>nd</sup> paragraph).

In respect to claim 6, Chen discloses the method as claimed in claim 5, in which the verification is carried out in the form of cryptographic verification using further parameters, particularly a decryption operation and/or a cryptographic checksum check

(see page 11, 2<sup>nd</sup> paragraph).

In respect to claim 7, Chen discloses the method as claimed in one of claims 3 to 6, in which the secret between the transmitter and the receiver is a key for symmetric encryption or a key pair for asymmetric encryption (see page 11, 2<sup>nd</sup> paragraph, DES).

In respect to claim 8, Chen discloses the method as claimed in one of claims 3 to 7, in which the part of the protocol data unit available on the application layer comprises a sequence number and/or a timestamp (see page 11, 2<sup>nd</sup> paragraph, timestamp is inherently required in packet heading).

In respect to claim 10, Chen discloses the method as claimed in one of the preceding claims, in which, before the data are transmitted from the transmitter to the receiver, authentication is carried out between the transmitter and the receiver (see page 11, 2<sup>nd</sup> paragraph).

In respect to claims 14-16, the claim limitations are substantially similar to claim 1. Therefore, claims 14-16 are rejected based on the similar rationale.

#### ***Claim Rejections - 35 USC § 103***

4. 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.

Claim 9, 11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chen (WO 99/11019).

In respect to claim 9, Chen discloses the method as claimed in one of claims 3 to 8 in which the encryption is performed using a one-way hash function or a message authentication code with a key which is known only to the receiver and to the transmitter which is to be authenticated. However, Applicant admits that authentication through one way hash or MAC is old and well known (Specification, page 3, 2<sup>nd</sup> and 3<sup>rd</sup> paragraph). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to apply one way hash or MAC as authenticate method with the mutual authentication between the transmitter and the receiver taught by Chen to enhance the security of providing accessing control.

In respect to claims 11-13, Chen discloses the method as claimed in one of the preceding claims. Chen does not explicitly disclose the authentication is for use in packet-switched telephone services; used in Internet telephone; used in switching nodes and switching installations. Official Notice is taken that providing authentication through packet switch Internet telephone services is old and well known. It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the authentication taught by Chen through packet-switch, Internet telephone

services to enhance security protection in the IP telephone service.

**Conclusion**

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tongoc Tran whose telephone number is (571) 272-3843. The examiner can normally be reached on 8:30-5:00.

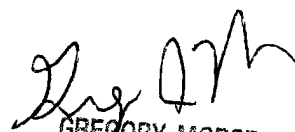
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Morse can be reached on (571) 272-3838. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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).



Examiner: Tongoc Tran  
Art Unit: 2134

October 3, 2005



GREGORY MORSE  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CE.

10/181564

5<sup>th</sup> Sec'd PGT 10 JUL 2002

#3

|                                                                                |                                                            |                                        |                 |
|--------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------|-----------------|
| FORM PTO-1449                                                                  | U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE | ATTORNEY DOCKET NO.<br>1454.1302       | APPLICATION NO. |
| LIST OF REFERENCES CITED BY APPLICANT<br><br>(Use several sheets if necessary) |                                                            | FIRST NAMED INVENTOR<br>Martin EUCHNER |                 |
|                                                                                |                                                            | FILING DATE                            | GROUP ART UNIT  |

## U.S. PATENT DOCUMENTS

| *EXAMINER<br>INITIAL |    | DOCUMENT<br>NO. | DATE | NAME | CLASS | SUB-<br>CLASS | FILING<br>DATE |
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|                      | AB |                 |      |      |       |               |                |
|                      | AC |                 |      |      |       |               |                |

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| <i>M</i> | AD | 99/11019        | 3/4/99 | WIPO    |       |               |                       |  |
|          | AE |                 |        |         |       |               |                       |  |

## OTHER REFERENCES (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

|                               |    |                                                                                                                                                                         |
|-------------------------------|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>M</i>                      | AF | Ray Hunt, "Internet/Intranet Firewall Security-Policy, Architecture and Transaction Services, Computer Communications, vol. 21, No. 13, September 1998, pages 1107-1123 |
| <i>No English Translation</i> | AG | <del>Andrew S. Tanenbaum, "Computer-Netzwerke", Wolfram's Fachverlag, Attenkirchen 1992, pages 17-32</del>                                                              |
| <i>↓</i>                      | AH | <del>Christoph Ruland, "Informationssicherheit in Datenmetzen", DATACOM-VERLAG, Bergheim 1993, pages 61-63 and 68-70</del>                                              |
| <i>M</i>                      | AI | H. Schulzrinne: "RTP: A Transport Protocol for Real-Time Applications; Internet Engineering Task Force", RFC 1889, 1996, pages 1-75                                     |
| <i>M</i>                      | AJ | D. Harkins, et al., "The Internet Key Exchange (IKE)" Internet Engineering Task Force, RFC 2409, 1998, pages 1-41                                                       |
| <i>M</i>                      | AK | S. Kent et al. "Internet Engineering Task Force", RFC 2402, 1998, pages 1-22                                                                                            |
| <i>M</i>                      | AL | S. Kent et al. "Internet Task Force", RFC 2406, 1998, pages 1-22                                                                                                        |
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|-----------------------------------|---------------------------------------|------------------------------------------------------------------------|-------------|
| <b>Notice of References Cited</b> | Application/Control No.<br>10/181,564 | Applicant(s)/Patent Under<br>Reexamination<br>CHARPENTIER, FREDERIC JE |             |
|                                   | Examiner<br>Tongoc Tran               | Art Unit<br>2134                                                       | Page 1 of 1 |

**U.S. PATENT DOCUMENTS**

| * |   | Document Number<br>Country Code-Number-Kind Code | Date<br>MM-YYYY | Name        | Classification |
|---|---|--------------------------------------------------|-----------------|-------------|----------------|
|   | A | US-6,061,796                                     | 05-2000         | Chen et al. | 726/15         |
|   | B | US-6,158,011                                     | 12-2000         | Chen et al. | 726/15         |
|   | C | US-5,602,918                                     | 02-1997         | Chen et al. | 713/153        |
|   | D | US-                                              |                 |             |                |
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|   | 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.

**Meta 1002**  
**p. 630**

## Electronic Acknowledgement Receipt

|                                             |                                                                                                   |
|---------------------------------------------|---------------------------------------------------------------------------------------------------|
| <b>EFS ID:</b>                              | 1772710                                                                                           |
| <b>Application Number:</b>                  | 10181564                                                                                          |
| <b>International Application Number:</b>    |                                                                                                   |
| <b>Confirmation Number:</b>                 | 4619                                                                                              |
| <b>Title of Invention:</b>                  | METHOD, SYSTEM FOR TRANSMITTING DATA FROM A TRANSMITTER TO A RECEIVER AND TRANSMITTER OR RECEIVER |
| <b>First Named Inventor/Applicant Name:</b> | Martin Euchner                                                                                    |
| <b>Customer Number:</b>                     | 21171                                                                                             |
| <b>Filer:</b>                               | Mehdi Sheikerz/Naomi Anderson                                                                     |
| <b>Filer Authorized By:</b>                 | Mehdi Sheikerz                                                                                    |
| <b>Attorney Docket Number:</b>              | 1454.1302                                                                                         |
| <b>Receipt Date:</b>                        | 14-MAY-2007                                                                                       |
| <b>Filing Date:</b>                         | 18-JUL-2002                                                                                       |
| <b>Time Stamp:</b>                          | 16:11:05                                                                                          |
| <b>Application Type:</b>                    | U.S. National Stage under 35 USC 371                                                              |

### Payment information:

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

### File Listing:

| Document Number | Document Description          | File Name                                  | File Size(Bytes) | Multi Part /.zip | Pages (if appl.) |
|-----------------|-------------------------------|--------------------------------------------|------------------|------------------|------------------|
| 1               | Miscellaneous Incoming Letter | 14541302Communicationtot<br>heExaminer.pdf | 70493            | no               | 2<br>Meta 1002   |

### Warnings:

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                              |                                                  |        |    |   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--------------------------------------------------|--------|----|---|
| <b>Information:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                              |                                                  |        |    |   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Information Disclosure Statement (IDS) Filed | 14541302IDSandPostcardFiledJuly2002.pdf          | 169460 | no | 4 |
| <b>Warnings:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                              |                                                  |        |    |   |
| <b>Information:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                              |                                                  |        |    |   |
| This is not an USPTO supplied IDS fillable form                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                              |                                                  |        |    |   |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Information Disclosure Statement (IDS) Filed | 14541302CopyofOfficeActionMailedOctober52005.pdf | 484647 | no | 9 |
| <b>Warnings:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                              |                                                  |        |    |   |
| <b>Information:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                              |                                                  |        |    |   |
| This is not an USPTO supplied IDS fillable form                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                              |                                                  |        |    |   |
| <b>Total Files Size (in bytes):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                              |                                                  | 724600 |    |   |
| <p><b>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.</b></p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b><br/> 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.</p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b><br/> 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.</p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b><br/> 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.</p> |                                              |                                                  |        |    |   |

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

In re the Application of:

Martin EUCHNER

Serial No. 10/181,564

Group Art Unit: 2134

Confirmation No. 4619

Filed: July 18, 2002

Examiner: Tongoc Tran

For: METHOD AND SYSTEM FOR TRANSMITTING DATA FROM A TRANSMITTER TO A RECEIVER, AND TRANSMITTER AND RECEIVER THEREFOR (As Amended)

**COMMUNICATION TO THE EXAMINER REGARDING PREVIOUSLY FILED INFORMATION  
DISCLOSURE STATEMENT**

MAIL STOP ISSUE FEE  
Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

The above-identified application is allowed. The issue fee has not been paid.

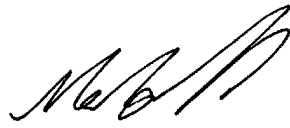
Previously on July 18, 2002 Applicant filed an Information Disclosure Statement (IDS) with Form PTO-1449. A copy of this Information Disclosure Statement is attached. In the Office Action mailed October 5, 2005, the Examiner returned a copy of Form PTO-1449 to indicate that the references cited thereon have been considered (copy attached). However, the Examiner did not acknowledge consideration of reference documents AG and AH in the FORM PTO-1449, for allegedly not having an English translation. However, as indicated on IDS of July 18, 2002 item 2b, "In accordance with 37 CFR 1.98, a concise explanation of what is presently understood to be the relevance of each non-English language publication is set forth in the application." See paragraphs 3-10 of the specification. Accordingly, the disclosure of reference documents AG and AH complied with 37 CFR 1.98.

Therefore, the Examiner is requested to expressly consider and acknowledge consideration of reference documents AG and AH in the Information Disclosure document of July 18, 2002; acknowledge consideration of the same by initialing next to each citation on Form PTO-1449 and return a copy of same to the undersigned.

The Examiner is requested to telephone the undersigned should he/she have any questions concerning this communication.

Respectfully submitted,  
STAAS & HALSEY LLP

Date: May 14, 2007

By:   
Mehdi Shekerz  
Registration No. 41,307

1201 New York Ave, N.W., 7th Floor  
Washington, D.C. 20005  
Telephone: (202) 434-1500  
Facsimile: (202) 434-1501



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**\*BIBDATASHEET\***

CONFIRMATION NO. 4619

Bib Data Sheet

|                                                                                                                                                                                                                                                  |                                                                                                                   |                                    |                                                                                                                                                                                                                                                                                 |                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| <b>SERIAL NUMBER</b><br>10/181,564                                                                                                                                                                                                               | <b>FILING OR 371(c) DATE</b><br>07/18/2002<br><b>RULE</b>                                                         | <b>CLASS</b><br>713                | <b>GROUP ART UNIT</b><br>2134                                                                                                                                                                                                                                                   | <b>ATTORNEY DOCKET NO.</b><br>1454.1302 |
| <b>APPLICANTS</b><br>Martin Euchner, Muenchen, GERMANY;                                                                                                                                                                                          |                                                                                                                   |                                    |                                                                                                                                                                                                                                                                                 |                                         |
| <b>** CONTINUING DATA *****</b><br>This application is a 371 of PCT/DE01/00021 01/05/2001                                                                                                                                                        |                                                                                                                   |                                    |                                                                                                                                                                                                                                                                                 |                                         |
| <b>** FOREIGN APPLICATIONS *****</b><br>GERMANY 100 01 855.6 01/18/2000                                                                                                                                                                          |                                                                                                                   |                                    |                                                                                                                                                                                                                                                                                 |                                         |
| Foreign Priority claimed <input checked="" type="checkbox"/> yes <input type="checkbox"/> no<br>35 USC 119 (a-d) conditions met <input checked="" type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> Met after Allowance |                                                                                                                   | <b>STATE OR COUNTRY</b><br>GERMANY | <b>SHEETS DRAWING</b><br>3                                                                                                                                                                                                                                                      | <b>TOTAL CLAIMS</b><br>28               |
| Verified and Acknowledged<br>Examiner's Signature _____ Initials _____                                                                                                                                                                           |                                                                                                                   |                                    | <b>INDEPENDENT CLAIMS</b><br>4                                                                                                                                                                                                                                                  |                                         |
| <b>ADDRESS</b><br>21171                                                                                                                                                                                                                          |                                                                                                                   |                                    |                                                                                                                                                                                                                                                                                 |                                         |
| <b>TITLE</b><br>METHOD AND SYSTEM FOR TRANSMITTING DATA FROM A TRANSMITTER TO A RECEIVER AND TRANSMITTER AND RECEIVER THEREFOR                                                                                                                   |                                                                                                                   |                                    |                                                                                                                                                                                                                                                                                 |                                         |
| <b>FILING FEE RECEIVED</b><br>1418                                                                                                                                                                                                               | FEES: Authority has been given in Paper<br>No. _____ to charge/credit DEPOSIT ACCOUNT<br>No. _____ for following: |                                    | <input type="checkbox"/> All Fees<br><input type="checkbox"/> 1.16 Fees ( Filing )<br><input type="checkbox"/> 1.17 Fees ( Processing Ext. of time )<br><input type="checkbox"/> 1.18 Fees ( Issue )<br><input type="checkbox"/> Other _____<br><input type="checkbox"/> Credit |                                         |



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www.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
|-----------------|-------------|----------------------|---------------------|------------------|

10/181,564

07/18/2002

Martin Euchner

1454.1302

4619

21171 7590 06/06/2007  
STAAS & HALSEY LLP  
SUITE 700  
1201 NEW YORK AVENUE, N.W.  
WASHINGTON, DC 20005

EXAMINER

TRAN, TONGOC

ART UNIT

PAPER NUMBER

2134

MAIL DATE

DELIVERY MODE

06/06/2007

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.



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U.S. Patent and Trademark Office

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Alexandria, Virginia 22313-1450

| APPLICATION NO./<br>CONTROL NO. | FILING DATE | FIRST NAMED INVENTOR /<br>PATENT IN REEXAMINATION | ATTORNEY DOCKET NO. |
|---------------------------------|-------------|---------------------------------------------------|---------------------|
| 10181564                        | 7/18/2002   | EUCHNER, MARTIN                                   | 1454.1302           |

STAAS & HALSEY LLP  
SUITE 700  
1201 NEW YORK AVENUE, N.W.  
WASHINGTON, DC 20005

EXAMINER

Tongoc Tran

| ART UNIT | PAPER |
|----------|-------|
|----------|-------|

2134 20070601

DATE MAILED:

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

Commissioner for Patents

Information Disclosure Statement submitted on 5/14/2007 has been considered by the Examiner.

  
KAMBIZ ZAND  
SUPERVISORY PATENT EXAMINER

|                                                                                |                                                            |                                        |                               |
|--------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------|-------------------------------|
| FORM PTO-1449                                                                  | U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE | ATTORNEY DOCKET NO.<br>1454.1302       | APPLICATION NO.<br>10/181,564 |
| LIST OF REFERENCES CITED BY APPLICANT<br><br>(Use several sheets if necessary) |                                                            | FIRST NAMED INVENTOR<br>Martin EUCHNER |                               |
|                                                                                |                                                            | FILING DATE                            | GROUP ART UNIT                |

### U.S. PATENT DOCUMENTS

| *EXAMINER<br>INITIAL |    | DOCUMENT<br>NO. | DATE | NAME | CLASS | SUB-<br>CLASS | FILING<br>DATE |
|----------------------|----|-----------------|------|------|-------|---------------|----------------|
|                      | AA |                 |      |      |       |               |                |
|                      | AB |                 |      |      |       |               |                |
|                      | AC |                 |      |      |       |               |                |

### FOREIGN PATENT DOCUMENTS

|      |    | DOCUMENT<br>NO. | DATE   | COUNTRY | CLASS | SUB-<br>CLASS | TRANSLATION<br>YES NO |  |
|------|----|-----------------|--------|---------|-------|---------------|-----------------------|--|
| /TT/ | AD | 99/11019        | 3/4/99 | WIPO    |       |               |                       |  |
|      | AE |                 |        |         |       |               |                       |  |

### OTHER REFERENCES (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

|      |    |                                                                                                                                                                         |  |  |  |  |  |  |
|------|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|
| /TT/ | AF | Ray Hunt, "Internet/Intranet Firewall Security-Policy, Architecture and Transaction Services, Computer Communications, vol. 21, No. 13, September 1998, pages 1107-1123 |  |  |  |  |  |  |
| /TT/ | AG | Andrew S. Tanenbaum, "Computer-Netzwerke", Wolfram's Fachverlag, Attenkirchen 1992, pages 17-32                                                                         |  |  |  |  |  |  |
| /TT/ | AH | Christoph Ruland, "Informationssicherheit in Datennetzen", DATACOM-VERLAG, Bergheim 1993, pages 61-63 and 68-79                                                         |  |  |  |  |  |  |
| /TT/ | AI | H. Schulzrinne: "RTP: A Transport Protocol for Real-Time Applications; Internet Engineering Task Force", RFC 1889, 1996, pages 1-75                                     |  |  |  |  |  |  |
| /TT/ | AJ | D. Harkins, et al., "The Internet Key Exchange (IKE)" Internet Engineering Task Force, RFC 2409, 1998, pages 1-41                                                       |  |  |  |  |  |  |
| /TT/ | AK | S. Kent et al. "Internet Engineering Task Force", RFC 2402, 1998, pages 1-22                                                                                            |  |  |  |  |  |  |
| /TT/ | AL | S. Kent et al. "Internet Task Force", RFC 2406, 1998, pages 1-22                                                                                                        |  |  |  |  |  |  |
|      |    |                                                                                                                                                                         |  |  |  |  |  |  |

|                                                                                                                                                                                                                                                          |                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| EXAMINER<br>/Tongoc Tran/                                                                                                                                                                                                                                | DATE CONSIDERED<br>06/01/2007 |
| <small>*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.</small> |                               |



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## \*BIBDATASHEET\*

CONFIRMATION NO. 4619

Bib Data Sheet

|                                                                                                                                                                                                                                                                                                                       |                                                                                                                   |                                    |                                                                                                                                                                                                                                                                                 |                                         |                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------|
| <b>SERIAL NUMBER</b><br>10/181,564                                                                                                                                                                                                                                                                                    | <b>FILING OR 371(c) DATE</b><br>07/18/2002<br><b>RULE</b>                                                         | <b>CLASS</b><br>713                | <b>GROUP ART UNIT</b><br>2134                                                                                                                                                                                                                                                   | <b>ATTORNEY DOCKET NO.</b><br>1454.1302 |                                |
| <b>APPLICANTS</b><br>Martin Euchner, Muenchen, GERMANY;<br><b>** CONTINUING DATA</b> <i>ok m</i><br>This application is a 371 of PCT/DE01/00021 01/05/2001<br><b>** FOREIGN APPLICATIONS</b> <i>ok m</i><br>GERMANY 100 01 855.6 01/18/2000                                                                           |                                                                                                                   |                                    |                                                                                                                                                                                                                                                                                 |                                         |                                |
| Foreign Priority claimed <input checked="" type="checkbox"/> yes <input type="checkbox"/> no<br>35 USC 119 (a-d) conditions <input checked="" type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> Met after<br>met Allowance<br>Verified and Acknowledged <i>Examiner's Signature</i> Initials |                                                                                                                   | <b>STATE OR COUNTRY</b><br>GERMANY | <b>SHEETS DRAWING</b><br>3                                                                                                                                                                                                                                                      | <b>TOTAL CLAIMS</b><br>28               | <b>INDEPENDENT CLAIMS</b><br>4 |
| <b>ADDRESS</b><br>21171                                                                                                                                                                                                                                                                                               |                                                                                                                   |                                    |                                                                                                                                                                                                                                                                                 |                                         |                                |
| <b>TITLE</b><br>METHOD AND SYSTEM FOR TRANSMITTING DATA FROM A TRANSMITTER TO A RECEIVER AND TRANSMITTER AND RECEIVER THEREFOR                                                                                                                                                                                        |                                                                                                                   |                                    |                                                                                                                                                                                                                                                                                 |                                         |                                |
| <b>FILING FEE RECEIVED</b><br>1418                                                                                                                                                                                                                                                                                    | FEES: Authority has been given in Paper<br>No. _____ to charge/credit DEPOSIT ACCOUNT<br>No. _____ for following: |                                    | <input type="checkbox"/> All Fees<br><input type="checkbox"/> 1.16 Fees ( Filing )<br><input type="checkbox"/> 1.17 Fees ( Processing Ext. of time )<br><input type="checkbox"/> 1.18 Fees ( Issue )<br><input type="checkbox"/> Other _____<br><input type="checkbox"/> Credit |                                         |                                |

## 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)

21171 7590 05/01/2007

STAAS & HALSEY LLP  
 SUITE 700  
 1201 NEW YORK AVENUE, N.W.  
 WASHINGTON, DC 20005



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. |
| 10/181,564      | 07/18/2002  | Martin Euchner       | 1454.1302           | 4619             |

TITLE OF INVENTION: ~~METHOD AND SYSTEM FOR TRANSMITTING DATA FROM A TRANSMITTER TO A RECEIVER AND TRANSMITTER OR RECEIVER~~  
**METHOD AND SYSTEM FOR TRANSMITTING DATA FROM A TRANSMITTER TO A RECEIVER, AND TRANSMITTER AND RECEIVER THEREFOR (As Amended)**

|                |              |                |                                                                                              |                      |                  |            |
|----------------|--------------|----------------|----------------------------------------------------------------------------------------------|----------------------|------------------|------------|
| APPLN. TYPE    | SMALL ENTITY | ISSUE FEE DUE  | PUBLICATION FEE DUE                                                                          | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE   |
| nonprovisional | NO           | \$1400         | \$300                                                                                        | \$0                  | \$1700           | 08/01/2007 |
| EXAMINER       | ART UNIT     | CLASS-SUBCLASS |                                                                                              |                      |                  |            |
| TRAN, TONGOC   | 2134         | 713-152000     | 07/26/2007 CNGUYEN3 00000022 10181564<br>01 FC:1501<br>02 FC:1504<br>1400.00 OP<br>300.00 ON |                      |                  |            |

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 **Staas & Halsey 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

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

**Siemens Aktiengesellschaft**

**Munchen, Germany**

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:

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- ☒ 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 **19-3935** (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 Mehdi D. Sheikerz

Date July 25, 2007

Typed or printed name Mehdi D. Sheikerz

Registration No. 41,307

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p. 640



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
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P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

| APPLICATION NO. | ISSUE DATE | PATENT NO. | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|------------|------------|---------------------|------------------|
| 10/181,564      | 09/04/2007 | 7266682    | 1454.1302           | 4619             |

21171 7590 08/15/2007  
STAAS & HALSEY LLP  
SUITE 700  
1201 NEW YORK AVENUE, N.W.  
WASHINGTON, DC 20005

## 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 675 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 Customer Service Center of the Office of Patent Publication at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

Martin Euchner, Muenchen, GERMANY;

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|                                                                                                                                                         |                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>TO:</b><br><b>Mail Stop 8</b><br><b>Director of the U.S. Patent and Trademark Office</b><br><b>P.O. Box 1450</b><br><b>Alexandria, VA 22313-1450</b> | <b>REPORT ON THE</b><br><b>FILING OR DETERMINATION OF AN</b><br><b>ACTION REGARDING A PATENT OR</b><br><b>TRADEMARK</b> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|

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 District of Delaware on the following

☐ Trademarks or ☒ Patents. ( ☐ the patent action involves 35 U.S.C. § 292.):

|                                                           |                                |                                                                                                                      |
|-----------------------------------------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------|
| DOCKET NO.                                                | DATE FILED<br>5/24/2022        | U.S. DISTRICT COURT<br>District of Delaware                                                                          |
| PLAINTIFF<br><br>VideoLabs, Inc. and VL Collective IP LLC |                                | DEFENDANT<br><br>Meta Platforms, Inc., Instagram, Inc., WhatsApp LLC,<br>Facebook Technologies, LLC, and Giphy, Inc. |
| PATENT OR<br>TRADEMARK NO.                                | DATE OF PATENT<br>OR TRADEMARK | HOLDER OF PATENT OR TRADEMARK                                                                                        |
| 1 US 8,139,878 B2                                         | 3/20/2012                      | VideoLabs, Inc.                                                                                                      |
| 2 US 7,769,238 B2                                         | 8/3/2010                       | VideoLabs, Inc.                                                                                                      |
| 3 US 7,970,059 B2                                         | 6/28/2011                      | VideoLabs, Inc.                                                                                                      |
| 4 US 7,266,682 B2                                         | 9/4/2007                       | VL Collective IP LLC                                                                                                 |
| 5 US 7,436,980                                            | 10/14/2008                     | VL Collective IP LLC                                                                                                 |

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

|                            |                                                                                                                                                               |                               |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| DATE INCLUDED              | INCLUDED BY<br><input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading |                               |
| PATENT OR<br>TRADEMARK NO. | DATE OF PATENT<br>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:

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| DECISION/JUDGEMENT |
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AO 120 (Rev. 08/10)

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| <b>TO:</b><br><b>Mail Stop 8</b><br><b>Director of the U.S. Patent and Trademark Office</b><br><b>P.O. Box 1450</b><br><b>Alexandria, VA 22313-1450</b> | <b>REPORT ON THE</b><br><b>FILING OR DETERMINATION OF AN</b><br><b>ACTION REGARDING A PATENT OR</b><br><b>TRADEMARK</b> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|

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 (Waco Division) on the following

☐ Trademarks or ☒ Patents. ( ☐ the patent action involves 35 U.S.C. § 292.):

|                                                       |                                |                                                                          |
|-------------------------------------------------------|--------------------------------|--------------------------------------------------------------------------|
| DOCKET NO.                                            | DATE FILED<br>1/21/2022        | U.S. DISTRICT COURT<br>for the Western District of Texas (Waco Division) |
| PLAINTIFF<br>VideoLabs, Inc. and VL Collective IP LLC |                                | DEFENDANT<br>Amazon.com, Inc. and Amazon Web Services, Inc.              |
| PATENT OR<br>TRADEMARK NO.                            | DATE OF PATENT<br>OR TRADEMARK | HOLDER OF PATENT OR TRADEMARK                                            |
| 1 See Attachment A                                    |                                |                                                                          |
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In the above—entitled case, the following patent(s)/ trademark(s) have been included:

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| DATE INCLUDED              | INCLUDED BY<br><input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading |                               |
| PATENT OR<br>TRADEMARK NO. | DATE OF PATENT<br>OR TRADEMARK                                                                                                                                | HOLDER OF PATENT OR TRADEMARK |
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In the above—entitled case, the following decision has been rendered or judgement issued:

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| DECISION/JUDGEMENT |
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|       |                   |      |
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| CLERK | (BY) DEPUTY CLERK | DATE |
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## ATTACHMENT A

| PATENT OR<br>TRADEMARK NO. | DATE OF PATENT<br>OR TRADEMARK | HOLDER OF PATENT OR TRADEMARK |
|----------------------------|--------------------------------|-------------------------------|
| 1. U.S. 6,880,156          | 4/12/2005                      | VL Collective IP LLC          |
| 2. U.S. 7,266,682          | 9/4/2007                       | VL Collective IP LLC          |
| 3. U.S. 7,440,559          | 10/21/2008                     | VL Collective IP LLC          |
| 4. U.S. 7,769,238          | 8/3/2010                       | VideoLabs, Inc.               |
| 5. U.S. 7,970,059          | 6/28/2011                      | VideoLabs, Inc.               |
| 6. U.S. 8,139,878          | 3/20/2012                      | VideoLabs, Inc.               |
| 7. U.S. 8,605,794          | 12/10/2013                     | VL Collective IP LLC          |

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|                                                                                                                                                         |                                                                                                                         |
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| <b>TO:</b><br><b>Mail Stop 8</b><br><b>Director of the U.S. Patent and Trademark Office</b><br><b>P.O. Box 1450</b><br><b>Alexandria, VA 22313-1450</b> | <b>REPORT ON THE</b><br><b>FILING OR DETERMINATION OF AN</b><br><b>ACTION REGARDING A PATENT OR</b><br><b>TRADEMARK</b> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|

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 (Waco Division) \_\_\_\_\_ on the following

☐ Trademarks or ☒ Patents. ( ☐ the patent action involves 35 U.S.C. § 292.)

|                                                       |                                |                                                                          |
|-------------------------------------------------------|--------------------------------|--------------------------------------------------------------------------|
| DOCKET NO.<br>6:22-cv-00079                           | DATE FILED<br>1/21/2022        | U.S. DISTRICT COURT<br>for the Western District of Texas (Waco Division) |
| PLAINTIFF<br>VideoLabs, Inc. and VL Collective IP LLC |                                | DEFENDANT<br>Amazon.com, Inc. and Amazon Web Services, Inc.              |
| PATENT OR<br>TRADEMARK NO.                            | DATE OF PATENT<br>OR TRADEMARK | HOLDER OF PATENT OR TRADEMARK                                            |
| 1 See Attachment A                                    |                                |                                                                          |
| 2                                                     |                                |                                                                          |
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In the above—entitled case, the following patent(s)/ trademark(s) have been included:

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| DATE INCLUDED              | INCLUDED BY<br><input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading |                               |
| PATENT OR<br>TRADEMARK NO. | DATE OF PATENT<br>OR TRADEMARK                                                                                                                                | HOLDER OF PATENT OR TRADEMARK |
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In the above—entitled case, the following decision has been rendered or judgement issued:

|                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DECISION/JUDGEMENT<br><br>10/11/2022 Doc #91 Sealed MEMORANDUM OPINION AND ORDER GRANTING 39 Opposed Sealed Motion to Transfer Venue Pursuant to 28 U.S.C. 1404(a). |
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|                               |                                                                                                               |                        |
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| CLERK<br><br>PHILIP J. DEVLIN | (BY) DEPUTY CLERK<br><br> | DATE<br><br>10/11/2022 |
|-------------------------------|---------------------------------------------------------------------------------------------------------------|------------------------|

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

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p. 645

## ATTACHMENT A

| PATENT OR<br>TRADEMARK NO. | DATE OF PATENT<br>OR TRADEMARK | HOLDER OF PATENT OR TRADEMARK |
|----------------------------|--------------------------------|-------------------------------|
| 1. U.S. 6,880,156          | 4/12/2005                      | VL Collective IP LLC          |
| 2. U.S. 7,266,682          | 9/4/2007                       | VL Collective IP LLC          |
| 3. U.S. 7,440,559          | 10/21/2008                     | VL Collective IP LLC          |
| 4. U.S. 7,769,238          | 8/3/2010                       | VideoLabs, Inc.               |
| 5. U.S. 7,970,059          | 6/28/2011                      | VideoLabs, Inc.               |
| 6. U.S. 8,139,878          | 3/20/2012                      | VideoLabs, Inc.               |
| 7. U.S. 8,605,794          | 12/10/2013                     | VL Collective IP LLC          |