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ASSIGNMENT

12-27-1999



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JC377 U.S. PTO
09/457605
12/08/99

To: Honorable Commissioner of Patents and Trademarks:

Please record the attached original document(s) or copy thereof.

1. Name of conveying party(ies)
 - a) Satyan Vasamsetti
 - b) Thomas Edward Lilley

2. Name and address of receiving party(ies):
 - a) Name: Covad Communications Group, Inc.
 - b) Address: 2330 Central Expressway
Santa Clara, CA 95050

3. Nature of conveyance

<input checked="" type="checkbox"/> Assignment	<input type="checkbox"/> Merger
<input type="checkbox"/> Security Agreement	<input type="checkbox"/> Change of Name
<input type="checkbox"/> Other _____	<input type="checkbox"/> License Agreement

Execution Date: December 7, 1999

09/457605

4. Application Number(s) or Patent Number(s): Unassigned

The title of the (new) application is:

NETWORK PROFILING SYSTEM

5. Please send all correspondence concerning this (these) documents to:

**Customer No. 21912
Ritter, Van Pelt & Yi LLP
4906 El Camino Real, Suite 205
Los Altos, CA 94022
(650) 903-3500 (PH)
(650) 903-3501 (FX)**

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00

- Enclosed
- Any deficiencies are hereby authorized to be charged to Deposit Account No. 50-0685 (Order No. COVDP005)

8. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Date: December 8, 1999

Jung-Hwa Kuo
Registration No. 41,918

Attorney Docket No. COVDP005

PATENT
REEL: 010450 FRAME: 0830

ASSIGNMENT OF PATENT APPLICATION

(Accompanying Application)

Whereas I/we the undersigned inventor(s) have invented certain new and useful improvements as set forth in the patent application entitled:

NETWORK PROFILING SYSTEM

(Atty. Docket No.: COVDP005) for which I (we) have executed an application for a United States Letters Patent.

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We the undersigned inventor(s) hereby:

1) Sell(s), assign(s) and transfer(s) to COVAD COMMUNICATIONS GROUP, INC., a Delaware corporation having a place of business at 2330 Central Expressway, Santa Clara, CA 95050, (hereinafter referred to as "ASSIGNEE"), the entire right title and interest in any and all improvements and inventions disclosed in, application(s) based upon, and Patent(s) (including foreign patents) granted upon the information which is disclosed in the above referenced application.

2) Authorize and request the Commissioner of Patents to issue any and all Letters Patents resulting from said application or any division(s), continuation(s), substitutes(s) or reissue(s) thereof to the ASSIGNEE.

3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative and applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.

4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the Assignee, its successors, assigns and other legal representative, and shall be binding upon the inventor(s), as well as the inventor's heirs, legal representatives and assigns.

5) Warrant and represent that I/we have not entered, and will not enter into any assignment, contract, or understanding that conflicts with this assignment.

1) Signature: V. Satyan Vasamsetti
Typed Name: Satyan Vasamsetti

Date: 12/07/99

2) Signature: Thomas Edward Lilley
Typed Name: Thomas Edward Lilley

Date: 12/7/99