FORM PTO-1619A Expires 06/30/99 OMB 0651-0027

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U.S. Department of Commerce Patent and Trademark Office **PATENT** 



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## L 101621573 RECORDATION FORM COVER SHEET

PATENTS ONLY TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies) Submission Type Conveyance Type **Security Agreement** ✓ New **Assignment** Resubmission (Non-Recordation) License **Change of Name Document ID#** Correction of PTO Error Merger Other Reel # Frame # U.S. Government Corrective Document (For Use ONLY by U.S. Government Agencies) Frame # Reel # **Secret File** Departmental File Mark if additional names of conveying parties attached Execution Date Conveying Party(ies) Year Day Name (line 1) Banwell, Thomas C. 11/01/2000 Name (line 2) Execution Date h Day Second Party Year 11/03/2000 Name (line 1) Galli, Stefano Name (line 2) Mark if additional names of receiving parties attached **Receiving Party** If document to be recorded Name (line 1) Telcordia Technologies, Inc. is an assignment and the receiving party is not domiciled in the United Name (line 2) a corporation of the State of Delaware States, an appointment of a domestic representative is attached. Address (line 1) 445 South Street (Designation must be a separate document from Assianment.) Address (line 2) **6**\ **New Jersey** 07960 Address (line 3) Morristown City State/Country Zip Code **Domestic Representative Name and Address** Enter for the first Receiving Party only. Name Address (line 1) Address (line 2) Address (line 3) Address (line 4) FOR OFFICE USE ONLY 02/26/2001 GTON11 00000138 021820 09676740

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D.C. 20231 and to the Office of Information and Regulators Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB

Mail documents to be recorded with required cover sheet(s) information to: Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

REEL: 011531 FRAME: 0890

FORM PTO-1619B Expires 06/30/99 OMB 0651-0027	Page 2	U.S. Department of Commerce Patent and Trademark Office PATENT
Correspondent Name and Addres	S Area Code and Telephone Number	973-829-2370
Name Orville R. Cockings, Esq.		
Address (line 1) Telcordia Technologies, Inc.		
Address (line 2) 445 South Street		
Address (line 3) RM 1G112R	10 A 4 A 40 A	
Address (line 4) Morristown, New Jersey 07960		
Pages Enter the total number of including any attachmen	pages of the attached conveyance documents.	ent #2
Application Number(s) or Patent N	Number(s) Mark if a	additional numbers attached
	the Patent Number (DO NOT ENTER BOTH numbers i	
Patent Application Number(s	paten	t Number(s)
09676740		
If this document is being filed together with a new was	v Patent Application, enter the date the patent applicat	ion Month Day Year
Patent Cooperation Treaty (PCT)		
Enter PCT application number	PCT PCT PCT	PCT
only if a U.S. Application Num has not been assigned.	ber PCT PCT	PCT
Number of Properties	otal number of properties involved.	1
Fee Amount Fee Amo	ount for Properties Listed (37 CFR 3.41): \$	40.00
Method of Payment: E Deposit Account	nclosed Deposit Account	
(Enter for payment by deposit account or	if additional fees can be charged to the Deposit Account Number: #	02-1820
	Authorization to charge additional fees:	Yes 🚺 No
Statement and Signature		

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. Charges to deposit account are authorized, as

indicated herein.

Orville R. Cockings

Name of Person Signing

Atty. Docket: APP 1302-US

## ASSIGNMENT OF APPLICATION

WHEREAS, I/we, Thomas C. Banwell and Stefano Galli have invented certain useful improvements in "System and Circuitry for Measuring Echoes on Subscriber Loops" described in an application for Letters

Tatent, and			
WHEREAS, I/we, hereby authorize and request my/our attorney to insert below the filing date and application number when they become known to comply with 37 CFR 3.21 for recordal of this assignment:  U. S. Application No09 / 676,740filed on09/29/2000; and			
WHEREAS, Telcordia Technologies, Inc., a corporation of the State of Delaware, having a place of business at 445 South Street, Morristown, NJ 07960, United States of America, for the benefit of itself and its successors and assigns, all inclusively hereinafter referred to as "Assignee", is desirous of acquiring all rights, title, and interest in and to said application, all inventions disclosed therein, and any and all Letters Patent of the United States of America, and of all other countries, which may be granted for said inventions, or any of them; and			
WHEREAS, I/we hereby represent and warrant to Assignee that I/we have, with respect to third parties, full and unencumbered rights, title, and interest in and to said application, inventions, and Letters Patent, and further that I/we may freely assign the same;			
NOW, THEREFORE, for good and valuable consideration, the receipt of which from Assignee is hereby acknowledged, I/we do hereby sell, assign, and transfer to Assignee all my/our rights, title, and interest in and to said application, including all priority rights arising therefrom, all inventions disclosed therein, and all divisions and continuations thereof, and in and to any and all Letters Patent of the United States, and of all other countries, and all reissues thereof, which may be granted for said inventions, or any of them, together with the right to make application for any and all of the same;			
TO HAVE, HOLD, AND ENJOY said inventions, said application and rights, and said Letters Patent, or any of them, to its own use and behoof to the full end of the term or terms for which said applications may endure and for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment not been made;			
AND LWE HEREBY authorize and request the Commissioner of Patents and Trademarks to issue or reissue such Letters Patent as may be granted on said application, on any division or continuation thereof, or for said inventions, or any of them, to Assignee in accordance with the terms of this instrument;			
AND L/WE HEREBY agree that I/we shall, at the request of Assignee and without demand of further consideration, but at no expense to me/us, do all lawful and just acts, including execution and acknowledgment of instruments, furnishing information, and giving testimony, particularly in the event of interference or litigation, indicated by counsel for Assignee to be necessary for obtaining, maintaining, and perfecting the property rights, or any of them, hereby assigned.			
IN WITNESS WHEREOF, I/we hereunto set my/our hand and seal on the day and year indicated.			
Thomas C. Banwell  Date: 1 Nov Jone			
County of Morris ) State of New Jersey ) ss:			
Then personally appeared before me on the indicated date(s) the above-named <b>Thomas C. Banwell</b> , to me personally known and known by me to be the person(s) described in and who executed the foregoing instrument, and acknowledged the same, before me, to be his/her/their own free act and deed.			

RY PUBLIC DONNA M. BALZARINI NOTARY PUBLIC OF NEW JERSEY

My Commission Expires Aug 14, 2002
PATENT

REEL: 011531 FRAME: 0892

IN WITNESS WHEREOF, I/we hereunto set my/our hand and seal on the day and year indicated.

Sterning Gall

Date: November 3 12/ 2000

County of Morris State of New Jersey

) ss:

Then personally appeared before me on the indicated date(s) the above-named **Stefano Galli**, to me personally known and known by me to be the person(s) described in and who executed the foregoing instrument, and acknowledged the same, before me, to be his/her/their own free act and deed.

NOTARYP

DONNAM. BALZARINI NOTARY PUBLIC OF NEW JERSEY My Commission Expires Aug 14, 2002

**RECORDED: 02/05/2001** 

PATENT REEL: 011531 FRAME: 0893