

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Luciana Costa</td> <td>11/28/2008</td> </tr> <tr> <td>Roberta D'Amico</td> <td>11/28/2008</td> </tr> <tr> <td>Paolo De Lutiis</td> <td>11/28/2008</td> </tr> <tr> <td>Manuel Leone</td> <td>11/28/2008</td> </tr> <tr> <td>Maurizio Valvo</td> <td>11/28/2008</td> </tr> <tr> <td>Paolo Solina</td> <td>11/28/2008</td> </tr> </tbody> </table>		Name	Execution Date	Luciana Costa	11/28/2008	Roberta D'Amico	11/28/2008	Paolo De Lutiis	11/28/2008	Manuel Leone	11/28/2008	Maurizio Valvo	11/28/2008	Paolo Solina	11/28/2008
Name	Execution Date														
Luciana Costa	11/28/2008														
Roberta D'Amico	11/28/2008														
Paolo De Lutiis	11/28/2008														
Manuel Leone	11/28/2008														
Maurizio Valvo	11/28/2008														
Paolo Solina	11/28/2008														
RECEIVING PARTY DATA															
<table border="1"> <tr> <td>Name:</td> <td>Telecom Italia S.p.A.</td> </tr> <tr> <td>Street Address:</td> <td>Piazza degli Affari, 2</td> </tr> <tr> <td>City:</td> <td>Milano</td> </tr> <tr> <td>State/Country:</td> <td>ITALY</td> </tr> <tr> <td>Postal Code:</td> <td>20123</td> </tr> </table>		Name:	Telecom Italia S.p.A.	Street Address:	Piazza degli Affari, 2	City:	Milano	State/Country:	ITALY	Postal Code:	20123				
Name:	Telecom Italia S.p.A.														
Street Address:	Piazza degli Affari, 2														
City:	Milano														
State/Country:	ITALY														
Postal Code:	20123														
PROPERTY NUMBERS Total: 1															
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13127404</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13127404										
Property Type	Number														
Application Number:	13127404														
CORRESPONDENCE DATA															
Fax Number:	(202)824-3001														
Phone:	2028243000														
Email:	lbahm@bannerwitcoff.com, BWPTOPAT@bannerwitcoff.com														
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>															
Correspondent Name:	Gary D. Fedorochko														
Address Line 1:	1100 13th Street NW, Suite 1200														
Address Line 4:	Washington, DISTRICT OF COLUMBIA 20005-4051														
ATTORNEY DOCKET NUMBER:	007760.00003														

CH \$40.00 13127404

NAME OF SUBMITTER:

Gary D. Fedorochko

Total Attachments: 2

source=Assignment#page1.tif

source=Assignment#page2.tif

TEL 1314

ASSIGNMENT

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:

METHOD FOR INCREASING SECURITY IN A PASSIVE OPTICAL NETWORK

for which I/We filed an international patent application having no. **PCT/EP2008/064885** under the Patent Cooperation Treaty (PCT) on **November 3, 2008**; and

WHEREAS, TELECOM ITALIA S.p.A., a corporation of Italy whose post office address is Piazza degli Affari, 2 – 20123 Milano Italy (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I/We, as Assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention, provisional Application No. _____, filed _____ (if any), and this application, and all divisions, and continuations thereof, and all Letters Patent which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of this application, and all applications for Letters Patent which may hereafter be filed for this invention in any country and all Letters Patent which may be granted on this invention in any country, and all extensions, renewals, and reissues thereof; and I/We hereby authorize and request any official of any country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY covenant that I/We have the full right to convey the interest assigned by this Assignment, and I/We have not executed and will not execute any agreement in conflict with this Assignment;

AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in any country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns;

AND, I/WE HEREBY authorize and request the attorneys empowered by an appropriate Power of Attorney in any national patent application claiming priority to this international application to provide any further identification of the national patent application that may be necessary or desirable for purposes of recordation of this Assignment in a Patent Office of any country, such as by inserting the application number and filing date of the national application here in parentheses (Application No. 13/127404, filed May 3, 2011).

IN TESTIMONY WHEREOF, I/We have hereunto set our hand(s).

1. FULL NAME OF SOLE OR FIRST ASSIGNOR Luciana COSTA	ASSIGNOR'S SIGNATURE <i>Luciana Costa</i>	DATE 28 NOV 2008
ADDRESS Telecom Italia S.p.A., Via G. Reiss Romoli, 274 - 10148 TORINO - Italy		CITIZENSHIP ITALY
SIGNATURE OF WITNESS (WHERE APPLICABLE)		
2. FULL NAME OF SECOND ASSIGNOR, IF ANY Roberta D'AMICO	ASSIGNOR'S SIGNATURE <i>Roberta D'Amico</i>	DATE 28 NOV 2008
ADDRESS Telecom Italia S.p.A., Via G. Reiss Romoli, 274 - 10148 TORINO - Italy		CITIZENSHIP ITALY
SIGNATURE OF WITNESS (WHERE APPLICABLE)		

3. FULL NAME OF THIRD ASSIGNOR, IF ANY Paolo DE LUTII	ASSIGNOR'S SIGNATURE <i>Paolo De Lutii</i>	DATE 28 NOV 2008
ADDRESS TELECOM ITALIA S.p.A., Via G. Reiss Romoli 274, 10148 TORINO, Italy		CITIZENSHIP ITALY
SIGNATURE OF WITNESS (WHERE APPLICABLE)		
4. FULL NAME OF FOURTH ASSIGNOR, IF ANY Manuel LEONE	ASSIGNOR'S SIGNATURE <i>Manuel Leone</i>	DATE 28 NOV 2008
ADDRESS TELECOM ITALIA S.p.A., Via G. Reiss Romoli 274, 10148 TORINO, Italy		CITIZENSHIP ITALY
SIGNATURE OF WITNESS (WHERE APPLICABLE)		
5. FULL NAME OF FIFTH ASSIGNOR, IF ANY Maurizio VALVO	ASSIGNOR'S SIGNATURE <i>Maurizio Valvo</i>	DATE 28 NOV 2008
ADDRESS TELECOM ITALIA S.p.A., Via G. Reiss Romoli 274, 10148 TORINO, Italy		CITIZENSHIP ITALY
SIGNATURE OF WITNESS (WHERE APPLICABLE)		
6. FULL NAME OF SIXTH ASSIGNOR, IF ANY Paolo SOLINA	ASSIGNOR'S SIGNATURE <i>Paolo Solina</i>	DATE 28 NOV 2008
ADDRESS TELECOM ITALIA S.p.A., Via G. Reiss Romoli 274, 10148 TORINO, Italy		CITIZENSHIP ITALY
SIGNATURE OF WITNESS (WHERE APPLICABLE)		
7. FULL NAME OF SEVENTH ASSIGNOR, IF ANY	ASSIGNOR'S SIGNATURE	DATE
ADDRESS		CITIZENSHIP
SIGNATURE OF WITNESS (WHERE APPLICABLE)		
8. FULL NAME OF EIGHTH ASSIGNOR, IF ANY	ASSIGNOR'S SIGNATURE	DATE
ADDRESS		CITIZENSHIP
SIGNATURE OF WITNESS (WHERE APPLICABLE)		
9. FULL NAME OF NINTH ASSIGNOR, IF ANY	ASSIGNOR'S SIGNATURE	DATE
ADDRESS		CITIZENSHIP
SIGNATURE OF WITNESS (WHERE APPLICABLE)		