

07-22-2002



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U.S. PTO
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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy there

<p>1. Name of conveying party(ies):</p> <p>Phil COUCH <i>07/10/02</i></p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies):</p> <p>Name: Carrier Access Corporation Internal Address: Street Address: 5395 Pearl Pkwy City: Boulder State: CO Zip: 80301-24</p> <p>Name: Internal Address: Street Address: City: Country:</p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
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3. Nature of conveyance:

Assignment
 Other

Execution Dates: July 9, 2002

4. Application number(s) or patent number(s): 40405.830029.002

A. Patent Application No.(s) *10/192020* B. Patent No.(s)

Additional numbers attached? Yes No

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: Brian P. Kinnear Holland & Hart LLP</p> <p>Street address: 555 Seventeenth Street Suite 3200</p> <p>City: Denver State: CO Zip: 80202</p>	<p>6. Total number of applications and registrations involved: <input type="text" value="1"/></p> <p>7. Total fee (37 CFR 3.41) \$40.00 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account</p> <p>8. Deposit account number: 082623</p> <p>(Attach duplicate copy of this page if paying by deposit account)</p>
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9. Statement and signature.
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is true copy of the original document.

Brian P. Kinnear *[Signature]* July 10, 2002
Name of person signing Signature Date

Total number of pages comprising cover sheet:

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ASSIGNMENT

WHEREAS, I, Phil Couch, having a residence at Colleigh Court, Colleigh, Houlton, Devon ENGLAND, have made a certain new and useful invention relating to a METHODS AND APPARATUSES FOR DIRECT DIGITAL DRIVE OF A LASER IN A PASSIVE OPTICAL NETWORK, for which I am making or I have made application for Letters Patent of the United States, application being identified by Docket No. 40405.8300029.001 of the law firm of Holland & Hart LLP, 555 Seventeenth Street, Suite 3200, Denver, Colorado, and

WHEREAS, I now own the entire right, title and interest therein; and

WHEREAS, Carrier Access Corporation, having a place of business at 5395 Pearl Parkway, Boulder, Colorado 80301-2490 is desirous of acquiring the entire interest in and to said invention, said application, and the Letters Patent to be obtained therefor;

NOW THEREFORE, for valuable consideration, receipt and adequacy of which are hereby acknowledged, I have sold, assigned, and set over, and do hereby sell, assign, and set over, unto the Carrier Access Corporation, and its legal representatives, successors, and assigns, the entire right, title, and interest in and to said invention, said application, and the Letters Patent, both foreign and domestic, that may or shall issue thereon; and I do hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to the above-mentioned assignee, consistent with the terms of this Assignment.

UPON SAID CONSIDERATION, I do hereby covenant and agree with the said assignee that I will not execute any writing or do any act whatsoever conflicting with these presents, and that I will, at any time upon request, without further or additional consideration, but at the expense of the said assignee, execute such additional assignments and other writings and do such additional acts as said assignee may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, renewal, reissued or extended Letters Patent of the United States, or of any and all foreign countries, on said invention, and in enforcing any rights or choices in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of both parties.

I have hereunto set my hand and affixed my seal on the date hereinafter set forth.

Date: 07/09/2002



Phil Couch

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Page 1 of 2

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RECORDED: 07/10/2002

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