

PATENT ASSIGNMENT

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Wayne D. Grover	12/22/2005
Adil Kodian	12/20/2005
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Property Type	Number
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OP \$40.00 11317908

ASSIGNMENT

In consideration of good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Assignors named below hereby assign and confirm that they have assigned to the Assignee named below, whose address is as shown below, all of their interest for Canada, the United States and the entire world in the following listed patent applications and/or patents, the inventions described therein, any patent granted from the patent applications, and any patent or patent application claiming domestic or foreign priority from any one or more of the patent applications, including the right to claim priority from the patent applications under any national law or international convention:

United States Provisional Patent application no. 60/637,769

Filing Date: December 22, 2004

Title: Failure Independent Path Protection with p-Cycles

United States non-provisional application under the same title, claiming priority from the provisional, to be filed concurrently herewith or as soon as practicable thereafter.

Assignors agrees that they will, without further consideration, but at the expense of Assignee, do all such things and execute all such documents as may be necessary or desirable to obtain and maintain patents for the inventions and for additions and modifications thereto in any country.

Assignors represent that they enter into this assignment as their own free act, and consent to disclosure of all personal information contained herein to the extent required to prosecute, maintain and enforce the rights assigned.

This assignment is governed by the laws of Alberta, Canada.

Assignor name: Wayne D. Grover

Signature of assignor: WD Grover Date of signing: Dec 22/05

Witness name (print): LINDA RICHEUS

Witness signature: [Signature]

Assignor name: Adil Kodian

Signature of assignor: Adil Kodian Date of signing: Dec 20, 2005

Witness name (print): AHMED ALLAM

Witness signature: Ahmed Allam

Assignee: Telecommunications Research Laboratories

Address of assignee: 7th Floor, 9107 - 116 Street, NW, Edmonton, Alberta, Canada, T6G 2V4