PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Olli-Pekka Pohjola	11/13/2003
Ari Tervonen	11/13/2003

RECEIVING PARTY DATA

Name:	Nokia Corporation
Street Address:	Keilalahdentie 4
City:	Espoo
State/Country:	FINLAND
Postal Code:	FIN-02150

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12006963

CORRESPONDENCE DATA

Fax Number: (414)297-4900

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: (414) 297-5571

Email: ptomailmilwaukee@foley.com

Correspondent Name: Steven C. Becker

Address Line 1: 777 E. Wisconsin Avenue
Address Line 2: Foley & Lardner LLP

Address Line 4: Milwaukee, WISCONSIN 53202-5306

ATTORNEY DOCKET NUMBER:	088245-2378
NAME OF SUBMITTED:	Stayon C. Rocker

Total Attachments: 1

source=Inventors_to_Nokia#page1.tif

PATENT REEL: 020536 FRAME: 0048

500468487

21 OU 073 AC

SQUIRE SANDERS & DEMPSEY L.L.P.

Docket No. 60279.00073

WORLDWIDE INVENTION ASSIGNMENT For good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR) bv [Insert ASSIGNEE's **Nokia Corporation** Keilálahdentie 4 Name(s) FIN-02150 Espoo Address(cs)] FINLAND (hereinafter ASSIGNEE), the receipt and sufficiency of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled SECURE UPSTREAM TRANSMISSION IN PASSIVE OPTICAL NETWORKS [Title of [avention] for which the following applications were filed: I'll the assignment is being filed Application *Filed on: after the filing of the application, this Number(s) section must be completed (Squire, Sanders & Dempsey L.L.P. is hereby authorized to insert the series code, serial number and/or filing date hereon, when known) and all Letters Patent of any country in the world to be obtained therefor on said application or any continuation, division, renewal, substitute, reissue or reexamination thereof for the full term or terms for which the same may be granted. The ASSIGNOR agrees to execute all papers necessary in connection with application and any continuing, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient. The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, division, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding. IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s). 13.11. 200 (Signature(s) Olli-Pekka POHJOLA of Assignor(s)] (TYPE NAME) (DATE) (SIGNATURE) Ari TERVONEN (TYPE NAME) (DATE) (DATE) (TYPE NAME) (SIGNATURE) (TYPE NAME) (DATE) (SIGNATURE) (TYPE NAME) (DATE) (SIGNATURE) (DATE) (SIGNATURE) (TYPE NAME)

RECORDED: 11/21/2003

PATENT REEL: 014728 FRAME: 0972

PATENT REEL: 020536 FRAME: 0049

RECORDED: 02/20/2008