

11-02-2000

U. S. DEPARTMENT OF COMMERCE
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To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): Bruce L. Cannon and Arlie R. Conner	2. Name and address of receiving party(ies): Name: Lightware, Inc.
Additional name(s) of conveying party(ies) attached <input type="checkbox"/> yes <input checked="" type="checkbox"/> no	
3. Nature of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other (describe): Execution Date: October 10, 2000	Business Address: 9875 SW Sunshine Court, Suite 200 Beaverton, Oregon 97005 Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is:	
A. Patent Application No.(s) 09/607,506	B. Patent No.(s)
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Name and address of party to whom correspondence concerning document should be mailed: Mark M. Meininger IPSOLON LLP 4370 NE Halsey Street Portland Oregon 97213	6. Total number of applications and patents involved: 1
7. Total fee (37 CFR 3.41): \$40.00 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Any deficiencies are authorized to be charged to deposit account.	8. Deposit account number: (Attach duplicate copy of this page if paying by deposit account)

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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 a true copy of the original document.

Name: Mark M. Meininger
Registration No. 32,428

Date: October 13, 2000

Total number of pages including cover sheet: 2

PATENT
REEL: 011189 FRAME: 0167

A S S I G N M E N T

WHEREAS, we, Bruce L. Cannon and Arlie R. Conner, both of Portland, State of Oregon, have invented a certain invention entitled Integrating Polarization Conversion System, for which I have made application for Letters Patent of the United States, said application having been filed on June 28, 2000 as application no. 09/607,506; and

WHEREAS, LIGHTWARE, INC., a corporation organized under the laws of the State of Oregon, having a place of business at 9875 SW Sunshine Court, Suite 200, Beaverton, OR 97005, is desirous of acquiring an interest therein:

NOW, THEREFORE, in consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we, Bruce L. Cannon and Arlie R. Conner, hereby sell, assign and transfer to LIGHTWARE, INC., the full and exclusive right, title and interest in and to said invention, patent application and patent rights throughout the world, including foreign patent priority rights, the right to file and prosecute International Applications under the Patent Cooperation Treaty, and the right to file and prosecute applications under the European Patent Convention; said invention, application and letters patent in this or any foreign country, and all divisions, continuations, reissues and extensions thereof, to be held and enjoyed by LIGHTWARE, INC., for its own use and benefit, and for its successors and assigns to the full end of the term for which letters patent may be granted in this or any foreign country, as fully and entirely as the same would have been held by us had this assignment and sale not been made, and covenant that we have full right so to do, and agree that we will communicate to LIGHTWARE, INC., or its successors and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths, and do everything possible to aid LIGHTWARE, INC., its successors and assigns to obtain and enforce proper patent protection for said invention in this or any foreign country.

Dated: October 10, 2000



Bruce L. Cannon

Dated: October 10, 2000



Arlie R. Conner