



11-02-1998



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Conveyance Type

- ☒ Assignment ☐ Security Agreement
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- ☐ Merger ☐ Other
- U.S. Government**
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- ☐ Departmental File ☐ Secret File

Conveying Party(ies)

- ☐ Mark if additional names of conveying parties attached
- Execution Date
Month Day Year
09 10 1998

Name (line 1) **Stone, Thomas W.**

Name (line 2)

Second Party

Name (line 1)

Name (line 2)

Execution Date
Month Day Year

Receiving Party

- ☐ Mark if additional names of receiving parties attached

Name (line 1) **Wavefront Research, Inc.**

Name (line 2) **a Pennsylvania corporation**

Address (line 1) **616 West Broad Street**

Address (line 2)

Address (line 3) **Bethlehem**

City

PA

State/Country

18018

Zip Code

☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Domestic Representative Name and Address

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Name

Address (line 1)

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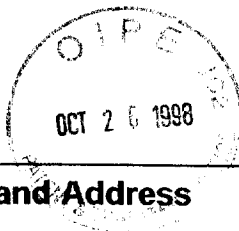
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Mail documents to be recorded with required cover sheet(s) information to:

PATENT
REEL: 9543 FRAME: 0431

10/29/1998 09:10:27 00000189 01 FC:39

**Correspondent Name and Address**

Area Code and Telephone Number (617) 854-4000

Name Jerry Cohen

Address (line 1) c/o Perkins, Smith & Cohen, LLP

Address (line 2) One Beacon Street, 30th Floor

Address (line 3) Boston, MA 02108

Address (line 4)

Pages

Enter the total number of pages of the attached conveyance document including any attachments.

2

Application Number(s) or Patent Number(s)☐ Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

09/102,700

Patent Number(s)

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year

Patent Cooperation Treaty (PCT)

Enter PCT application number

only if a U.S. Application Number has not been assigned.

PCT

PCT

PCT

PCT

PCT

PCT

Number of Properties

Enter the total number of properties involved.

1

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$ 40.00

Method of Payment:

Deposit Account

Enclosed ☒Deposit Account ☐

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

03-2410

Order #6536-113

Authorization to charge additional fees:

Yes

☒

No

☐**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. Charges to deposit account are authorized, as indicated herein.

Jacob N. Erlich

Name of Person Signing

Signature

10-21-98

Date

ASSIGNMENT

WHEREAS, I, Thomas W. Stone, residing at 1605 Main Street, Bethlehem, PA 18018, (hereinafter referred to as "Assignor") have made an invention entitled OPTICAL SWITCHING, ROUTING, AND TIME DELAY SYSTEMS USING SWITCHED MIRRORS, for which an application for a United States Patent was filed on June 22, 1998 and accorded Serial Number 09/102,700.

WHEREAS, Wavefront Research, Inc., a corporation organized and existing under the laws of the Commonwealth of Pennsylvania, having its principal place of business at 616 West Broad Street, Bethlehem, PA 18018 (hereinafter referred to as "Assignee"), is desirous of acquiring right, title and interest in said invention.

NOW, THEREFORE, in consideration of One Dollar (\$1.00), and other good and valuable consideration, the receipt of which is hereby acknowledged, Assignor by these presents, does sell, assign and transfer to Assignee, Assignor's entire right, title and interest, for the United States of America and its possessions and territories and for all foreign countries, in and to said invention, including all rights of priority created and conferred by any treaty or international convention which is available in connection with said invention, including the right to apply for patent rights, U.S. or foreign, and in any continuations, divisions, substitutes, renewals, reissues or other applications filed in the U.S. or abroad (including multinational filing arrangements of all kinds), and in any U.S. or foreign patents issued on any such applications and reissues, extensions and renewals thereof, to be held and enjoyed by Assignee, for its own use and behalf and for its successors and assigns, to the full ends of the terms or extended terms for which any Letters Patents or the like may be granted, as fully and entirely as the same would have been held by Assignor had this sale, assignment and transfer not been made.

Assignor hereby authorizes and requests the Commissioner of Patents of the United States, and any official of any country or countries (including multinational filing arrangements of all kinds), whose duty it is to receive and/or examine applications for patents or similar industrial property, issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to Assignee, its successors and assigns, in accordance with the terms of this instrument.

Assignor covenants with Assignee, its successors, assigns, and legal representatives that Assignor has full right to convey the entire interest herein assigned, and that Assignor has not executed any agreement in conflict herewith and will not execute any agreement or conveyance in conflict herewith.

Assignor further covenants and agrees to communicate to Assignee, its successors, legal representatives and assigns, any facts known to Assignor respecting said invention, and testify in any legal proceeding, sign all lawful papers, including, without limitation, application papers, assignments, powers of attorney, declarations, and other instruments, execute all divisional, continuing, substitute, reissue, renewal and foreign applications, make all truthful oaths, declarations and statements, and generally do everything reasonably requested of Assignor by Assignee, or its successors or assigns to aid Assignee, its successors or assigns, to obtain, enforce and /or exploit said invention.

Executed this 10th day of SEPTEMBER, 1998.

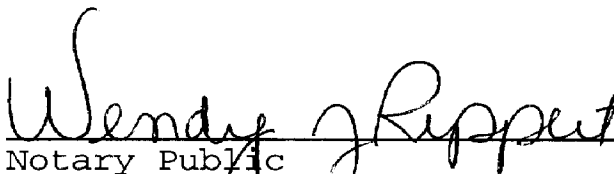


Thomas W. Stone

Commonwealth of PA)

County of Lehigh) ss.

Before me appeared Thomas W Stone on this 10th day of September, 1998, who signed this Assignment document, and who acknowledges that he signed it as a free act on his behalf.



Notary Public

My commission expires

SEAL

6536-113/assign/sole

