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To the Honorable Commissioner of Patents and T.

ents or copy thereof.

1. Name of conveying party(ies):

TONEN Corporation

Additional name(s) of conveying party(ies) attached?
 yes no



2. Name and address of receiving party(ies)?

Name: Asahi Optical Co., Ltd.
a/k/a Asahi Kogaku Kogyo Kabushiki Kaisha
No. 36-9, Maeno-cho 2-chome
Internal Address: Itabashi-ku, Tokyo, Japan

Street Address:

City State Zip

Additional name(s) & address(es) attached?
 yes no

3. Nature of Conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other

Execution Date: September 7, 1998 and June 18, 1997

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)

B. Patent No(s).

4,865,733 4,781,904 5,217,699
4,794,171 5,082,566 5,037,543

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC
2100 Pennsylvania Avenue, N.W.
Suite 800
Washington, D.C. 20037-3202

6. Total number of applications and patents involved: 6

7. Total Fee (37 CFR 3.41): \$ 240.00 (6 x \$40.00)
 Enclosed. Please charge any underpayment in connection with this Assignment to Deposit Account No. 19-4880.

Authorized to be charged to Deposit Account

8. Deposit Account No.

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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.

David J. Cushing
David J. Cushing Reg. No. 28,703

November 10, 1998
Date

TOTAL NUMBER OF PAGES COMPRISING COVER SHEET, ATTACHMENTS AND DOCUMENT: 24

OMB No. 0651-0011 (exp. 4/94)

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Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks
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FD 054298 - NJ

Assignment

Whereas, **TONEN Corporation, No. 1-39 Hiroo 1-chome, Shibuya-ku, Tokyo, Japan(Formerly, Toa Nenryo Kogyo Kabushiki Kaisha : No. 1-1 Hitotsubashi 1-chome, Chiyoda-ku, Tokyo, JAPAN)**, hereinafter referred to as "Assignor", is the owner of undivided one-half right, title and interest in United States Patents **No. 4,865,733** and

Whereas, **Asahi Optical Co., Ltd.(also known as Asahi Kogaku Kogyo Kabushiki Kaisha) No. 36-9, Maeno-cho 2-chome, Itabashi-ku, Tokyo, Japan** hereinafter referred to as "Assignee", desire to acquire the entire right, title, and interest of the Assignor in the said U.S. Patent;

Now, therefore, for valuable consideration, receipt of which is hereby acknowledged, the above-named Assignor hereby sells, assigns and transfers to the above-named Assignee, its successors and assigns, the entire right, title and interest in the said U.S. Patent, and any reissues or re-examinations thereof, together with all claims for damages by reason of past infringement of the said U.S. Patent with the right to Assignee to sue for and collect the same for their own use and enjoyment.

Assignor hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.

Assignor further covenants that upon request by the Assignee, Assignor will promptly provide to Assignee all pertinent facts and documents relating to the invention claimed in the said U.S. Patent and legal equivalents as may be known and accessible to Assignor, and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to Assignee or its legal representative any and all papers instruments or affidavits required to apply for, obtain, maintain, issue and enforce the said U.S. Patent which may be necessary by Assignee.

TONEN Corporation

Date: September 7th 1998

By: *Michimasa Nagatani*

Michimasa Nagatani

Title: Director

ASSIGNMENT

WHEREAS, Tonen Corporation, a corporation organized and existing under the laws of Japan, having a place of business at 1-39, Hiroo 1-chome, Shibuya-ku, Tokyo Japan, hereinafter generally referred to as "ASSIGNOR," is the owner, by assignment, of the inventions disclosed and claimed in the following U.S. patents:

<u>U.S. Patent No.</u>	<u>Issue Date</u>	<u>Title</u>
4,794,171	December 27, 1988	Calcium-Phosphate Type Hydroxyapatite and Process For Producing Same
4,781,904	November 1, 1988	Calcium-Phosphate Type Hydroxyapatite For Chromatographic Separation and Process For Producing Same
5,082,566	January 21, 1992	Calcium-Phosphate Type Hydroxyapatite For Chromatographic Separation and Process For Producing Same
5,217,699	June 8, 1993	Calcium-Phosphate Type Hydroxyapatite
5,037,543	August 6, 1991	Assemblage of Hydroxylapatite Particles and Liquid Chromatography Column Using The Same

WHEREAS, Asahi Kogaku Kogyo K.K., a Japanese corporation, having a place of business at 36-9, Maeno-cho 2-chome, Itabashi-ku, Tokyo Japan, hereinafter generally referred to as "ASSIGNEE", is desirous of acquiring said inventions and said Letters Patent, including any choses in action;

NOW, THEREFORE, in consideration of the sum of One Dollar and other good and valuable executed consideration, the full receipt and sufficiency of all of which are hereby acknowledged, and intending to be legally bound hereby, WE, the undersigned ASSIGNOR, hereby agree to sell, assign, transfer and convey and by these presents do sell, assign, transfer and convey unto the above-named ASSIGNEE, the whole and entire right, title and interest

in and to said inventions as described above, for the territory of the United States and its possessions and territories and all foreign countries, and

in and to the above Letters Patent and applications for Letters Patent and any and all United States Letters Patent which may be granted on said applications and all United States and foreign Letters Patent which may be granted on said inventions including divisions, reissues and continuations;

said inventions, applications and Letters Patent to be held and enjoyed by the above-named ASSIGNEE, for ASSIGNEE's own use and behoof, and for ASSIGNEE's legal representatives and assigns to the full end of the term or terms for which said Letters Patent may be granted, as fully and entirely as the same would have been held by the undersigned ASSIGNOR had this assignment and sale not been made; and for the aforesaid consideration ASSIGNOR hereby covenants, agrees and undertakes to execute, whenever requested by the above-named ASSIGNEE, all patent applications, assignments, lawful oaths and any other papers which ASSIGNEE may deem necessary or desirable for securing to ASSIGNEE or for maintaining for ASSIGNEE all the Letters Patent hereby assigned or agreed to be assigned; all without further compensation to the undersigned ASSIGNOR and the choses in action therefor, all without further compensation to ASSIGNEE.

TONEN CORPORATION

By:  (L.S.)
Name: Michimasa Nagatani
Title: Director

June 18, 1997

Date

Witessed