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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):

Huakun Xu
Laurence C. Chow
Shozo Takagi
Frederick C. Eichmiller

5-1-03

Additional name of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)

Name: American Dental Association Foundation

Internal Address: Building 224, Room A-153

National Institute of Standards and Technology

Street Address: _____

City: Gaithersbrg State: MD Zip: 20899

Additional Name(s) & address(es) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other _____

Execution Date: February 25, 2003

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)

10/086,484

B. Patent No.(s)

Additional numbers attached? Yes No

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FINANCE SECTION

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

Name: Jon O. Nelson

Internal Address: Banner & Witcoff, Ltd.

Street Address: Ten South Wacker Drive

City: Chicago State: IL Zip: 60606

6. Total number of applications and patents involved:

7. Total fee (37 CFR 3.41) \$ 40

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number:

19-0733

(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.

Jon O. Nelson

Name of Person Signing

[Signature]
Signature

May 1, 2003

Date

Total number of pages including cover sheet, attachments, and documents: 5

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

Attorney Docket No. 10118.00011

05/05/2003 LNELLER 00000014 190733 10006404

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ASSIGNMENT

Attorney Docket No. **10118.00011**

Inventors: **Huakun Xu; Laurene C. Chow; Shozo Takagi; and Frederick C. Eichmiller**

Serial No.: **10/086,484**

Filing Date: **March 1, 2002**

Date of Execution of Application: **February 25, 2002**

In consideration of One Dollar (\$1.00) and other good and valuable considerations in hand paid, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assign to:

American Dental Association Foundation

its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, entitled:

**SELF-HARDENING CALCIUM PHOSPHATE MATERIALS WITH
HIGH RESISTANCE TO FRACTURE, CONTROLLED STRENGTH
HISTORIES AND TAILORED MACROPORE FORMATION RATES**

and identified as:

Attorney Docket No. 10118.00011

in the offices of Banner & Witcoff, Ltd. and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known, and the date of execution of the application.

The undersigned warrant themselves to be the owners of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrant that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

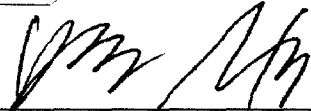
For said considerations the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or

BANNER & WITCOFF, LTD.
Ten South Wacker Drive
Chicago, Illinois 60606
(312) 715-1000

Attorney Docket No. 10118.00011

expedient, and for the said considerations the undersigned authorize said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agree, upon the request of said assignees, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignees, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignees, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

WITNESS my hand and seal this 25th day of February, 2002.



Huakun Xu

State of Maryland

County of Washington

The foregoing instrument was acknowledged before me this 25th day of

February, 2002 by Huakun Xu


NOTARY PUBLIC Christine S. Hodkinson
My commission expires May 7, 2003

WITNESS my hand and seal this 25th day of February, 2002.



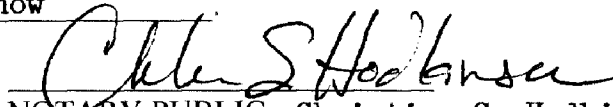
Laurence C. Chow

State of Maryland

County of Washington

The foregoing instrument was acknowledged before me this 25th day of

February, 2002 by Laurence C. Chow


NOTARY PUBLIC Christine S. Hodkinson
My commission expires May 7, 2003

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Ten South Wacker Drive
Chicago, Illinois 60606
(312) 715-1000

Attorney Docket No. 10118.00011

WITNESS my hand and seal this 25th day of February, 2002.

Shozo Takagi
Shozo Takagi

State of Maryland

County of Washington

The foregoing instrument was acknowledged before me this 25th day of

February, 2002 by Shozo Takagi

Christine S. Hodkinson
NOTARY PUBLIC Christine S. Hodkinson
My commission expires May 7, 20

WITNESS my hand and seal this 25 day of February, 2002.

Frederick C. Eichmiller
Frederick C. Eichmiller

State of Maryland

County of Washington

The foregoing instrument was acknowledged before me this 25th day of

February, 2002 by Frederick C. Eichmiller

Christine S. Hodkinson
NOTARY PUBLIC Christine S. Hodkinson
My commission expires May 7, 2003

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