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original documents or copy thereof.

To the Honorable Commissioner of Patents

1. Name of conveying party(ies):
(1) Donald C. Beitz; (2) Allen Trenkle;
(3) Frederick C. Parrish; (4) Jayden L. Montgomery

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

2. Name and address of receiving party(ies)
Name: Iowa State University Research Foundation, Inc.
Internal Address: _____

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: (1, 2, 3) September 10, 1999;
(4) September 21, 1999

Street Address: 310 Lab of Mechanics

City: Ames State: Iowa Zip: 50011

Additional name(s) & address(es) attached? Yes 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)
08/883,865

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Heidi S. Nebel

Internal Address: _____

Street Address: 801 Grand Avenue, Suite 3200

City: Des Moines State: Iowa Zip: 50309-2721

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00
 Enclosed (If this amount is insufficient, please charge Deposit Account 26-0084)

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.

Heidi S. Nebel

Name of Person Signing

[Signature]
Signature

10/11/99

Date

Total number of pages including cover sheet, attachments, and document: 6

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

A S S I G N M E N T


In consideration of One Dollar and other good and valuable considerations, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assign to Iowa State University Research Foundation, Inc., an Iowa corporation, having an address of 310 Lab of Mechanics, Ames, Iowa 50011, 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, Serial No. 08/883,865, filed in the United States Patent and Trademark Office on the 27th day of June, 1997, entitled USE OF VITAMIN D, ITS METABOLITES AND ANALOGS TO IMPROVE TENDERNESS OF MEAT AND MEAT PRODUCTS, and in said application any and all other applications for United States Letters Patent, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent, applications, and in any reissue or extension thereof.

The undersigned hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said Iowa State University Research Foundation, Inc.

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 or affidavit relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application, and for the said considerations the undersigned further agree upon the request of said assignee, its successors or assigns, in the event of any application or Letters Patent assigned herein becoming involved in interference, to cooperate to the best of the ability of the undersigned with said assignee, its successors or assigns in the matters of preparing and executing the preliminary statement and giving and producing evidence in support thereof, the undersigned hereby agreeing to perform, upon request, any and all affirmative acts to obtain said Letters Patent of the United States and vest all rights therein hereby conveying in the said assignee, its successors and assigns whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment and sale had not been made.

And for said considerations the undersigned hereby assign to said assignee, its successors and assigns, the entire right, title and interest in said invention or improvements for any and all foreign countries and agree upon the request of assignee, its successors and assigns to execute any and all documents that undersigned shall be requested to execute in connection with any and all applications for foreign Letters Patent therefor, including the prosecution thereof, and to execute any and all documents necessary to vest title in said foreign applications and patents in assignee.

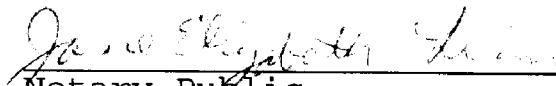

Donald C. Beitz

STATE OF IOWA)
) ss.
COUNTY OF STORY)

On this 10th day of September, 1999, before me, a Notary Public in and for the County and State aforesaid, appeared **Donald C. Beitz**, to me personally known to be the person whose name is subscribed to the foregoing instrument, and acknowledged that he/she executed said instrument as his/her free and voluntary act for the uses and purposes therein expressed.

Witness my hand and seal the day and year last above given.

7-21-2000
Commission Expires


Notary Public

Allen Trenkle
Allen Trenkle

STATE OF IOWA)
) ss.
COUNTY OF STORY)

On this 10th day of September, 1999, before me, a Notary Public in and for the County and State aforesaid, appeared **Allen Trenkle**, to me personally known to be the person whose name is subscribed to the foregoing instrument, and acknowledged that he/she executed said instrument as his/her free and voluntary act for the uses and purposes therein expressed.

Witness my hand and seal the day and year last above given.

7-21-2000
Commission Expires

Jane Elizabeth Lison
Notary Public

F. C. Parrish
Frederick C. Parrish

STATE OF IOWA)
) ss.
COUNTY OF STORY)

On this 10th day of September, 1999, before me, a Notary Public in and for the County and State aforesaid, appeared **Frederick C. Parrish**, to me personally known to be the person whose name is subscribed to the foregoing instrument, and acknowledged that he/she executed said instrument as his/her free and voluntary act for the uses and purposes therein expressed.

Witness my hand and seal the day and year last above given.

7-21-2000
Commission Expires

Jane Elizabeth Lison
Notary Public

STATE OF ~~IOWA~~)
 Texas)
 Lubbock) ss.
COUNTY OF ~~STORY~~)

Jayden L. Montgomery
Jayden L. Montgomery

On this 21st day of September, 1999, before me, a Notary Public in and for the County and State aforesaid, appeared **Jayden L. Montgomery**, to me personally known to be the person whose name is subscribed to the foregoing instrument, and acknowledged that he/she executed said instrument as his/her free and voluntary act for the uses and purposes therein expressed.

Witness my hand and seal the day and year last above given.

01/06/01
Commission Expires

Lori L Sechrist
Notary Public

