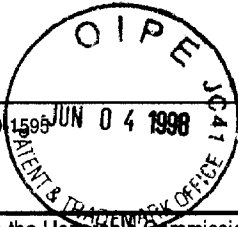


MRD 6.4.98



03-23-1999



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Revised Form PTO 1595 (Rev. 6-93)

U.S. Department of Commerce Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies): William J. Boyle</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies): Name: <u>Amgen Inc.</u> Internal Address: <u>M/S 27-4-A, Dept. 430</u></p> <p>Street Address: <u>One Amgen Center Drive</u></p> <p>City: <u>Thousand Oaks</u> State: <u>CA</u> Zip: <u>91320</u></p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name</p> <p>Execution Date: <u>May 29, 1998</u></p>	

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: _____

<p>A. Patent Application No.(s) <u>09/052,521 filed March 30, 1998</u></p>	<p>B. Patent No.(s)</p>
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Additional numbers attached? Yes No

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: <u>U.S. Patent Operations/RBW</u></p> <p>Internal Address: <u>Dept. 430, M/S 27-4-A</u> <u>AMGEN INC.</u></p> <p>Street Address: <u>One Amgen Center Drive</u></p> <p>City: <u>Thousand Oaks</u> State: <u>CA</u> Zip: <u>91320-1789</u></p>	<p>6. Total number of applications and patents involved: <input type="text" value="1"/></p> <p>7. Total fee (37 CFR 3.41)\$ <u>(40.00)</u></p> <p><input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account.</p> <p>8. Deposit account number: <u>01-0519</u></p> <p><input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional filing fees which may be required or credit any overpayment to Deposit Account No. 01-0519</p>
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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

Robert B. Winter [Signature] 5/29/98
Name of Person Signing Signature Date

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

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Commissioner of Patents and Trademarks, Washington, D.C. 20231, on the date appearing below.

June 1, 1998 Date Wendy Jensen Signature

PATENT REEL: 9823 FRAME: 0325

ASSIGNMENT

Whereas, I, William J. Boyle, 11678 Chestnut Ridge Street, Moorpark, CA 93021 USA

have made an invention which is the subject of an application for Letters Patent of the United States ("Application") entitled

OSTEOPROTEGERIN BINDING PROTEINS AND RECEPTORS

which is found in:

- (a) the U.S. Patent Application executed on even date herewith;
- (b) the U.S. Patent Application executed on _____
- (c) U.S. Application Serial No.: 09/052,521 filed on March 30, 1998
- (d) U.S. Patent No.: _____

Whereas AMGEN INC., a Delaware corporation having its principal place of business at 1840 De Havilland Drive, Thousand Oaks, California 91320-1789 wishes to acquire the entire interest in all inventions disclosed in such Application:

Now, therefore, in consideration of the sum of one dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell, assign, transfer and set over unto AMGEN INC., its successors and assigns (collectively "AMGEN") my entire right, title and interest in, to and under the Application, and any provisional application(s) from which Application is derived, and all priority rights to which the Application may be entitled, including all priority rights for other countries arising therefrom, all inventions therein disclosed, and any and all Letters Patent of the United States and of all other countries which may be granted for such inventions, or any of them, including divisional, continuation, and/or continuation-in-part applications based on the above-identified Application, all such inventions and all rights in such Application and Letters Patent to be held and enjoyed by AMGEN for its own use and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made.

Further, I hereby sell, assign, transfer, and set over unto AMGEN my entire right, title and interest in or to the right to refer to, to access, and to control microorganism(s) or other biological material(s) related to the Application and which are deposited by me or at my direction or deposited on my behalf by Amgen, its affiliates, employees or employees of its affiliates. The transfer of such right, title and interest includes, without limitation, my unreserved and irrevocable consent and authorization to AMGEN to refer to the deposited microorganisms(s) or other biological materials(s) in the Application and the right to make available to the public the deposited material in accordance with the laws, treaties, statutes, rules, regulations and the like of the United States, all other countries, and any patent granting authority or organization.

I authorize and request the Commissioner of Patents and Trademarks of the United States to issue any such Letters Patent which may be granted on the Application to AMGEN as assignee of the entire right, title and interest therein and thereto.

For myself and for my legal representatives, I covenant and agree with AMGEN that I have not granted to any others any license to make, use or sell any such inventions, that my right, title and interest in such inventions has not been encumbered, that I have good right and title to sell and assign the same, and that I will not execute any instrument in conflict herewith.

For myself and for my heirs, successors and legal representatives, I further covenant and agree with AMGEN that upon request I and they will: (i) execute continuing, divisional, or reissue applications, amended specifications, or rightful declarations or oaths; (ii) communicate to AMGEN any facts known to me or them relating to such inventions or the history thereof; (iii) execute preliminary statements and testify in any interference proceedings or litigation; (iv) execute and deliver any application papers, assignments, or other instruments; and (v) do all other acts which, in the opinion of counsel for AMGEN, may be necessary or desirable to secure the grant of Letters Patent to AMGEN or its nominees, in the United States and in all other countries where AMGEN may desire to have such inventions, or any of them, patented, with specifications and claims in such form as shall be approved by counsel for AMGEN and to vest and confirm in AMGEN or its nominees the full and complete legal and equitable title to all such Letters Patent, without further consideration than that now paid but at the expense of AMGEN.

In Witness Whereof I have executed this assignment on the 29th day of May 19 98

William J. Boyle
(Name of Inventor)

[Signature]
(Signature of Inventor)

UNITED STATES OF AMERICA

State of California } ss:
County of Ventura

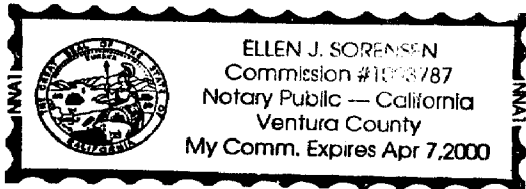
May 29 19 98

Before me, a Notary Public for Ventura County, State of California, personally appeared

WILLIAM J. BOYLE

personally known to me - OR -

proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.



WITNESS my hand and official seal.

[Signature]
Notary Public

My commission expires
April 7 20 00