

09-20-2004

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark OfficeCase No. 4-31336P1
Confirm No. 5894

To the Honorable Commissioner of Patents

102839339

Original documents or copy thereof.

1. Name of conveying party(ies):

- (1) Robert Mitchell CROWL
(2) Daniel C. LUK

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

3. Nature of conveyance:

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

Execution Date: (1 and 2) March 9, 2000

2. Name and address of receiving party(ies)

Name: Novartis AGStreet Address: Lichtstrasse 35City: Basel State: Switzerland ZIP: 4056Additional 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)

09/522.699

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Thomas HoxieInternal Address: NovartisCorporate Intellectual PropertyStreet Address: One Health Plaza, Building 430City: East Hanover State: NJ ZIP: 07936-10806. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41)

\$ 40

- ☐ Enclosed
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8. Deposit account number:

19-0134 (in the name of Novartis)

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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.

Edward J. Wilusz, Jr.Name of Person Signing
Reg. No. 52,370

Signature

September 16, 2004
Date☒ Certificate of Express Mail belowTotal number of pages including cover sheet, attachments, and document: 2

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03-05-2004

Case No. 4-31336P1

Confirm No. 5894

To the Honorable Commissioner of

102685351

ched original documents or copy thereof.

1. Name of conveying party(ies): 3.1-04
- (1) Robert Mitchell CROWL
- (2) Daniel C. LUK

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

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- ☐ Security Agreement ☐ Change of Name
- ☐ Other _____

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Name: Thomas HoxieInternal Address: NovartisCorporate Intellectual PropertyStreet Address: One Health Plaza, Building 430City: East Hanover State: NJ ZIP: 07936-10806. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41) \$ 40

- ☐ Enclosed
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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 E. Wildman

Name of Person Signing

Reg. No. 40,226

Signature

Date

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EV 373401609 US

Express Mail Label Number

MARCH 1, 2004

Date of Deposit

PATENT

REEL: 015786 FRAME: 0874

ASSIGNMENT

We,

Robert Mitchell Crowl residing at 16 Wentworth Drive
Berkeley Heights, New Jersey 07922

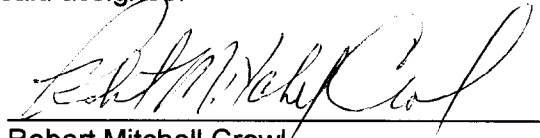
Daniel C. Luk residing at 5 Barry Place
Passaic, New Jersey 07055,

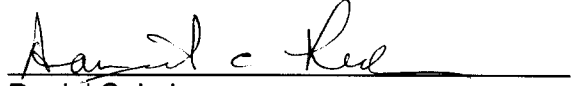
for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, do hereby sell and assign to **Novartis AG**, a company organized under the laws of the Swiss Confederation, having a place of business at Schwarzwaldallee 215, Basel, Switzerland 4058, its successors, assigns and legal representatives, all our right, title and interest, which includes the right to and full benefit of such priorities as may now or hereafter be granted to us by local laws or by treaty, including any international convention for the protection of industrial property, in and for the United States and its territories and possessions in and to the invention entitled:

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invented by us and described in the application for United States Letters Patent executed on even date herewith including (1) said application for United States Letters Patent and all continuations and divisions thereof (including further continuations and divisions such as, but not limited to, continuations of continuations and divisions of continuations), (2) all United States Letters Patent which may be issued and/or granted on all such applications, (3) all applications for reissues and extensions of and reexamination certificates for all such United States Letters Patent and (4) all reissues and extensions and reexamination certificates issued for all such United States Letters Patent, the said interest being the entire ownership of said invention and all of said applications, United States Letters Patent (including reissue Letters Patent), extensions and reexamination certificates to be held and enjoyed by the said Novartis AG and its successors and assigns to the full end of the terms to which said United States Letters Patent (including reissue Letters Patent), extensions and reexamination certificates may be granted and/or issued, as fully and entirely as the same would have been held and enjoyed by us if this sale, assignment and transfer had not been made;

And we hereby agree to sign and/or execute any further documents and/or instruments which may be necessary, lawful and proper in and/or for the filing and/or prosecution of said applications for United States Letters Patent (including reissue Letters Patent), extensions and reexamination certificates and/or the granting and/or issuance thereof and/or to otherwise secure title to said invention and all of said applications, United States Letters Patent (including reissue Letters Patent), extensions and reexamination certificates in said assignee.

Signed this 9th day of March, 2000 by 
Robert Mitchell Crowl

Signed this 9th day of MARCH, 2000 by 
Daniel C. Luk