

FORM PTO-1595

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09-15-2004

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



U.S. Patent and Trademark Office

Case PC/4-31388B/C1/HO 27

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

102836048

1. Name of conveying party(ies):

Gurdip Bhalay, Stephen Paul Collingwood,
Robin Alec Fairhurst, Sylvie Felicite Gomez,
Reto Naef, David Andrew Sandham

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

3. Nature of conveyance:

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

Execution Date: 9/19/02; 9/19/02; 9/20/02; 9/18/02;9/18/02; 9/19/02

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)

10/644,328

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: NovartisInternal Address: Corporate 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☒ Authorized to be charged to deposit account and any other additional fees required.

8. Deposit account number:

19-0134 (in the name of Novartis)

(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.

Gregory C. Houghton

Name of Person Signing

Reg. No. 47,666

Signature

Date

☒ Certificate of Express Mail belowTotal number of pages including cover sheet, attachments, and document: 5

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September 15, 2004

PATENT

US (PCT) Case 4-31388A/HO 27

ASSIGNMENT

I / We **Gurdip Bhalay**
Stephen Paul Collingwood
Robin Alec Fairhurst
Sylvie Felicite Gomez
Reto Naef
David Andrew Sandham

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, of Lichtstrasse 35, 4056 Basel, Switzerland**, its successors, assigns and legal representatives all my/our right, title and interest, in and for the United States of America, in and to the invention entitled:

8-QUINOLINXANTHINE AND 8-ISOQUINOLINXANTHINE DERIVATIVES AS PDE 5 INHIBITORS

invented by me/us and described in the international application

No. **PCT/EP01/03909** filed **April 5, 2001**

and all United States Letters Patent which may be granted therefor, and all divisions, reissues, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by the said **Novartis AG**, its successors, assigns or other legal representatives, 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 me/us if this assignment and sale had not been made;

And I/we hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to the said **Novartis AG**.

Signed on

Gurdip Bhalay
Gurdip Bhalay

19-09-02.

Stephen Paul Collingwood
Stephen Paul Collingwood

19-09-2002.

Robin Alec Fairhurst
Robin Alec Fairhurst

20-09-02

Sylvie Felicite Gomez
Sylvie Felicite Gomez

18 September 2002

Reto Naef

David Andrew Sandham

19-09-2002

David Andrew Sandham

US (PCT) Case 4-31388A/HO 27

ASSIGNMENT

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Stephen Paul Collingwood
Robin Alec Fairhurst
Sylvie Felcite Gomez
Reto Naef
David Andrew Sandham

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And I/we hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to the said **Novartis AG**.

Signed on

Gurdip Bhalay

Stephen Paul Collingwood

Robin Alec Fairhurst

Sylvie Felicite Gomez

US 07/01

PATENT
REEL: 015957 FRAME: 0239

Reto Naef

18/09/2002

Reto Naef

David Andrew Sandham