

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT																
NATURE OF CONVEYANCE:	ASSIGNMENT																
CONVEYING PARTY DATA																	
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Joerg Berghausen</td> <td>02/04/2011</td> </tr> <tr> <td>Prasad Koteswara Kapa</td> <td>02/07/2011</td> </tr> <tr> <td>Joseph McKenna</td> <td>01/25/2011</td> </tr> <tr> <td>Joel Slade</td> <td>01/28/2011</td> </tr> <tr> <td>Raeann Wu</td> <td>01/25/2011</td> </tr> <tr> <td>Zhengming Du</td> <td>01/25/2011</td> </tr> <tr> <td>Frank Stowasser</td> <td>02/04/2011</td> </tr> </tbody> </table>		Name	Execution Date	Joerg Berghausen	02/04/2011	Prasad Koteswara Kapa	02/07/2011	Joseph McKenna	01/25/2011	Joel Slade	01/28/2011	Raeann Wu	01/25/2011	Zhengming Du	01/25/2011	Frank Stowasser	02/04/2011
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RECEIVING PARTY DATA																	
<table border="1"> <tr> <td>Name:</td> <td>Novartis AG</td> </tr> <tr> <td>Street Address:</td> <td>Lichtstrasse 35</td> </tr> <tr> <td>City:</td> <td>Basel</td> </tr> <tr> <td>State/Country:</td> <td>SWITZERLAND</td> </tr> <tr> <td>Postal Code:</td> <td>4056</td> </tr> </table>		Name:	Novartis AG	Street Address:	Lichtstrasse 35	City:	Basel	State/Country:	SWITZERLAND	Postal Code:	4056						
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PROPERTY NUMBERS Total: 1																	
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Application Number:	13514308																
CORRESPONDENCE DATA																	
Fax Number:	9737818064																
Phone:	862-778-7821																
Email:	andrea.jacquin@novartis.com																
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>																	
Correspondent Name:	Andrea Jacquin																
Address Line 1:	One Health Plaza																
Address Line 4:	East Hanover, NEW JERSEY 07936																
ATTORNEY DOCKET NUMBER:	53961-US-PCT																

CH \$40.00 13514308

NAME OF SUBMITTER:

Andrea Jacquin

Total Attachments: 12

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(joint)

Patent Case PAT053961

ASSIGNMENT

For good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, we

(1) Joerg Berghausen, (2) Prasad Koteswara Kapa, (3) Joseph McKenna, (4) Joel Slade, (5) Raean Wu, (6) Zhengming Du, (7) and Frank Stowasser,

(1) Novartis Pharma AG

Werk Klybeck
Postfach
4002 Basel
CH,

(2) Novartis
One Health Plaza
East Hanover NJ 07936
US

(3) Novartis
One Health Plaza
East Hanover NJ 07936
US

(4) Novartis
One Health Plaza
East Hanover NJ 07936
US

(5) Novartis
One Health Plaza
East Hanover NJ 07936
US

(6) Novartis
One Health Plaza
East Hanover NJ 07936
US

(7) Novartis Pharma AG
Werk Klybeck
Postfach
4002 Basel
CH

do hereby sell, assign and transfer to Novartis AG, a company organized under the laws of the Swiss Confederation, of Lichtstrasse 35, 4056 Basel, Switzerland, (hereinafter referred to as the "ASSIGNEE") and its successors, assigns and legal representatives, all of my right, title and interest for all countries of the world in and to (1) all of my inventions and discoveries described in the patent application(s) titled **CRYSTALLINE FORMS OF 3-(2,6-DICHLORO-3,5-DIMETHOXY-PHENYL)-1-[6-[4-(4-ETHYL-PIPERAZIN-1-YL)-PHENYLAMINO]-PYRIMIDIN-4-YL]-1-METHYL-UREA AND SALTS THEREOF**

and filed in the United States Patent and Trademark Office on _____, 20__ and accorded Application Number _____* and/or filed in the RO/US on 06 December 2010 and accorded International Patent Application Number PCT/US2010/059108, (2) the patent application(s) identified in (1), (3) all national stages of any international patent application identified in (1), (4) all other patent applications in all countries and regions claiming the priority of the provisional or non-provisional patent application filed

in the United States Patent and Trademark Office on 07 December 2009 and accorded Application Number 61/267,155, (5) for all patent applications, all rights of priority based upon the United States patent application identified in (4) in all countries and regions under the Paris Convention for the Protection of Industrial Property, the Inter-American Convention relating to Inventions, Patents, Designs, and Industrial Models and all other international agreements to which the United States now is or hereafter becomes a signatory and, if the United States patent application identified in (4) is a provisional patent application, under 35 USC 119(e) (including the right to file patent applications on said inventions and discoveries in the names of ASSIGNEE or their designees or in our names, at their election and in accordance with applicable law in all countries and regions), (6) all continuations and divisions of any United States patent application or international patent application designating the United States identified in (1), any national stages of any international application identified in (1) and any patent applications within the scope of (4) (including further continuations and divisions such as, but not limited to, continuations of continuations and continuations of divisions), ((2)-(4) and (6) hereinafter referred to collectively as "patent applications"), (7) all patents that are granted on any of said patent applications, (8) all registrations and confirmations of, and importation certificates based upon, one or more of said patents and applications for such registrations, confirmations and importation certificates and (9) all reissues, renewals and extensions of said patents, registrations, confirmations and importation certificates, reexamination certificates issued for said patents and supplementary protection certificates based upon said patents and applications for such reissues, renewals, extensions, reexamination certificates and supplementary protection certificates, the same to be held and enjoyed by said ASSIGNEE and their successors, assigns and legal representatives to the full ends of the terms for which said patents, registrations, confirmations, importation certificates, reexamination certificates, supplementary protection certificates, reissues, renewals and extensions may be granted, 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.

*We hereby authorize ASSIGNEE and their representatives to insert in this Assignment the filing date(s) and Application Number(s) of said patent application(s) when notified thereof.

And we hereby covenant and agree that we will, at any time, (i) upon the request, but at the expense, of ASSIGNEE or their successors, assigns or legal representatives execute and deliver all documents that may be necessary or desirable to perfect the title to the foregoing inventions and discoveries, patent applications, patents, registrations, confirmations, importation certificates, reissues, renewals, extensions, reexamination certificates, supplementary protection certificates and applications within the scope of (8) and (9) in ASSIGNEE or their successors, assigns or legal representatives, including the execution and procurement of all further documents evidencing this sale, assignment and transfer as may be necessary or desirable for recording the same in the patent office or other intellectual property office, agency or the like of any country or region, (ii) upon the request, but at the expense, of ASSIGNEE or their successors, assigns or legal representatives execute all additional patent applications within the scope of (3), (4) and (6) and all applications within the scope of (8) or (9) and (iii) make all rightful oaths and declarations and do all lawful acts requisite for procuring the same or for aiding therein, without further compensation, but at the expense of ASSIGNEE or their successors, assigns or legal representatives.

This Assignment is effective as from the earliest priority date as stated above.

Executed this 4th day of February, 2011.

Joerg Berghausen L.S.
Joerg Berghausen

Witness: D. Dutz

D. Dutz
Norwalki Thermo AB
WW-127-352
CH-4002 Basel

ACKNOWLEDGEMENT

State of _____)
) s.s.:
County of _____)

On this _____ day of _____, 20____, personally appeared before me _____ to me known and known by me to be the same person described in and who executed the foregoing Assignment and acknowledged that (s)he executed the same of his (her) own free will for the purpose set forth.

(Seal)

Notary Public

Executed this _____ day of _____, 20____.

Prasad Koteswara Kapa L.S.

ACKNOWLEDGEMENT

State of New Jersey)
) s.s.:
County of Morris)

On this _____ day of _____, 20____, personally appeared before me Prasad Koteswara Kapa, to me known and known by me to be the same person described in and who executed the foregoing Assignment and acknowledged that (s)he executed the same of his (her) own free will for the purpose set forth.

(Seal)

Notary Public

Executed this _____ day of _____, 20__.

Joseph McKenna

ACKNOWLEDGEMENT

State of New Jersey)
) s.s.:
County of Morris)

On this _____ day of _____, 20__, personally appeared before me
_____ to me known and known by me to be the same person described
in and who executed the foregoing Assignment and acknowledged that (s)he executed the same of his (her)
own free will for the purpose set forth.

(Seal)

Notary Public

Executed this _____ day of _____, 20__.

Joel Slade

ACKNOWLEDGEMENT

State of New Jersey)
) s.s.:
County of Morris)

On this _____ day of _____, 20__, personally appeared before me
_____ to me known and known by me to be the same person described
in and who executed the foregoing Assignment and acknowledged that (s)he executed the same of his (her)
own free will for the purpose set forth.

(Seal)

Notary Public

Executed this _____ day of _____, 20__.

Raeann Wu

ACKNOWLEDGEMENT

State of New Jersey)
) s.s.:
County of Morris)

On this _____ day of _____, 20____, personally appeared before me
_____ to me known and known by me to be the same person described
in and who executed the foregoing Assignment and acknowledged that (s)he executed the same of his (her)
own free will for the purpose set forth.

(Seal)

Notary Public

Executed this _____ day of _____, 20__.

Zhengming Du

ACKNOWLEDGEMENT

State of New Jersey)
) s.s.:
County of Morris)

On this _____ day of _____, 20____, personally appeared before me
_____ to me known and known by me to be the same person described
in and who executed the foregoing Assignment and acknowledged that (s)he executed the same of his (her)
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(Seal)

Notary Public

Witness:

State of _____)
) s.s.:
County of _____)

(Sesal)

Notary Public

(joint)

Patent Case PAT053961

ASSIGNMENT

For good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, we

(1) Joerg Berghausen, (2) Prasad Koteswara Kapa, (3) Joseph McKenna, (4) Joel Slade, (5) Raeann Wu, (6) Zhengming Du, (7) and Frank Stowasser,

(1) Novartis Pharma AG

Werk Klybeck
Postfach
4002 Basel
CH

(2) Novartis
One Health Plaza
East Hanover NJ 07936
US

(3) Novartis
One Health Plaza
East Hanover NJ 07936
US

(4) Novartis
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East Hanover NJ 07936
US

(5) Novartis
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US

(6) Novartis
One Health Plaza
East Hanover NJ 07936
US

(7) Novartis Pharma AG
Werk Klybeck
Postfach
4002 Basel
CH

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in the United States Patent and Trademark Office on 07 December 2009 and accorded Application Number 61/267,155, (5) for all patent applications, all rights of priority based upon the United States patent application identified in (4) in all countries and regions under the Paris Convention for the Protection of Industrial Property, the Inter-American Convention relating to Inventions, Patents, Designs, and Industrial Models and all other international agreements to which the United States now is or hereafter becomes a signatory and, if the United States patent application identified in (4) is a provisional patent application, under 35 USC 119(e) (including the right to file patent applications on said inventions and discoveries in the names of **ASSIGNEE** or their designees or in our names, at their election and in accordance with applicable law in all countries and regions), (6) all continuations and divisions of any United States patent application or international patent application designating the United States identified in (1), any national stages of any international application identified in (1) and any patent applications within the scope of (4) (including further continuations and divisions such as, but not limited to, continuations of continuations and continuations of divisions), ((2)-(4) and (6) hereinafter referred to collectively as "patent applications"), (7) all patents that are granted on any of said patent applications, (8) all registrations and confirmations of, and importation certificates based upon, one or more of said patents and applications for such registrations, confirmations and importation certificates and (9) all reissues, renewals and extensions of said patents, registrations, confirmations and importation certificates, reexamination certificates issued for said patents and supplementary protection certificates based upon said patents and applications for such reissues, renewals, extensions, reexamination certificates and supplementary protection certificates, the same to be held and enjoyed by said **ASSIGNEE** and their successors, assigns and legal representatives to the full ends of the terms for which said patents, registrations, confirmations, importation certificates, reexamination certificates, supplementary protection certificates, reissues, renewals and extensions may be granted, 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.

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This Assignment is effective as from the earliest priority date as stated above.

Executed this _____ day of _____, 20____

Joerg Berghausen L.S. Witness: _____

ACKNOWLEDGEMENT

State of _____)
) s.s.:
County of _____)

On this _____ day of _____, 20____, personally appeared before me _____ to me known and known by me to be the same person described in and who executed the foregoing Assignment and acknowledged that (s)he executed the same of his (her) own free will for the purpose set forth.

(Seal)

Notary Public

Executed this 7th day of February, 2011

Prasad Koteswara Kapa L.S.
Prasad Koteswara Kapa

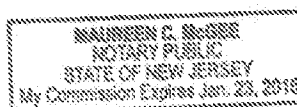
ACKNOWLEDGEMENT

State of New Jersey)
) s.s.:
County of Morris)

On this 7th day of February, 2011, personally appeared before me Prasad Koteswara Kapa, to me known and known by me to be the same person described in and who executed the foregoing Assignment and acknowledged that (s)he executed the same of his (her) own free will for the purpose set forth.

(Seal)

Margaret C. McKeen
Notary Public



Executed this 25th day of JANUARY, 2011.

Joseph McKenna L.S.
Joseph McKenna

ACKNOWLEDGEMENT

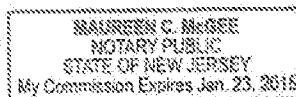
State of New Jersey)
) s.s.:
County of Morris)

On this 25th day of January, 2011, personally appeared before me Joseph McKenna
to me known and known by me to be the same person described
in and who executed the foregoing Assignment and acknowledged that (s)he executed the same of his (her)
own free will for the purpose set forth.

(Seal)

Maureen C. McKee
Notary Public

Executed this 28 day of JANUARY, 2011.



Joel Slade L.S.
Joel Slade

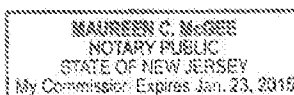
ACKNOWLEDGEMENT

State of New Jersey)
) s.s.:
County of Morris)

On this 28th day of January, 2011, personally appeared before me Joel Slade
to me known and known by me to be the same person described
in and who executed the foregoing Assignment and acknowledged that (s)he executed the same of his (her)
own free will for the purpose set forth.

(Seal)

Maureen C. McKee
Notary Public



Executed this 25 day of Jan, 2011.

[Signature] L.S.
Raeann Wu

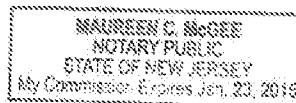
ACKNOWLEDGEMENT

State of New Jersey)
) s.s.:
County of Morris)

On this 25th day of January, 2011, personally appeared before me Raeann Wu
to me known and known by me to be the same person described
in and who executed the foregoing Assignment and acknowledged that (s)he executed the same of his (her)
own free will for the purpose set forth.

(Seal)

[Signature]
Notary Public



Executed this 25 day of Jan, 2011.

[Signature] L.S.
Zhengming Du

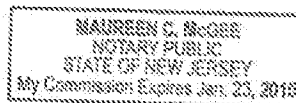
ACKNOWLEDGEMENT

State of New Jersey)
) s.s.:
County of Morris)

On this 25th day of January, 2011, personally appeared before me Zhengming Du
to me known and known by me to be the same person described
in and who executed the foregoing Assignment and acknowledged that (s)he executed the same of his (her)
own free will for the purpose set forth.

(Seal)

[Signature]
Notary Public



Executed this _____ day of _____, 20____.

LS.

Witness: _____

Frank Stowasser

ACKNOWLEDGEMENT

State of _____)

555

County of _____)

On this _____ day of _____, 20____, personally appeared before me _____
_____ to me known and known by me to be the same person described
in and who executed the foregoing Assignment and acknowledged that (s)he executed the same of his (her)
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(Seal)

Notary Public