| [] yes [X] no Additional name(s) and addresses attached? [] yes [X] no Additional name(s) and addresses attached? 3. Description of the interest conveyed: [X] Assignment, please record and return [] Merger Change of Name [] Other Execution date of Assignment: April 24, 26 and May 4, 2001 4. Application number(s) or patent number(s). Additional Sheets attached? _ Yes X No A. Patent Application No.(s) B. Patent No.(s) PCT/US00/05227 FILED 1 MARCH 2000 B. Patent No.(s) If this document is being filed together with a new application, the execution date of the application is 5. Name and address of party to whom correspondence concerning documents should be mailed: James M. Kanagy GlaxoSmithKline Corporate Intellectual Property - UW2220 P.O. Box 1539 King of Prussia, PA 19406-0939 Total Fee (37 C.F.R. 3.41) <u>\$40.00</u> 8. Please charge this fee to deposit account No. 19-2570. DO NOT USE THIS SPACE Do NOT USE THIS SPACE 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. James M. Kanagy Signature Signature 9. Statement an | Form PTO-1595 10-24- 8-31~) R | | '.S. DEPARTMENT OF COMMERCE Patent and Trademark Office EET |
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| 1. Name of conveying party(ies) 2. Name and address of receiving party(ies) Siegfried B. Christensen, IV Mary S. Barnette Theodore J. Torphy Comparison Additional names of conveying party(ies) attached? Dives Franklin Plaza 200 North 16th Street Philadelphia, PA 19103 United States of America Additional name(s) and addresses attached? (1) yes<[X] no Change of Name 3. Description of the interest conveyed: [X] Assignment, please record and return [] Change of Name (1) Other Execution date of Assignment: April 24, 26 and May 4, 2001 4. Application number(s) or patent number(s). Additional Sheets attached? Yes Yet Yet X No A. Patent Application No.(s) B. PCT/US00/05227 FILED 1 MARCH 2000 If this document is being filed together with a new application, the execution date of the application is 5. Name and address of party to whom correspondence concerning documents should be mailed: 6. James M. Kanagy GlaxoSmithKline 1.6 or 1.17 which may be required by this paper, or credit any overpayment, to our Deposit Account No. 19-2570. To the best of my knowledge and belief, the foregoing information is t | | | ······ |
| Siegfried B. Christensen, IV Mary S. Barnette Theodore J. Torphy Additional names of conveying party(ies) attached? (1) yes [X] no OGG914203 3. Description of the interest conveyed: [X] Assignment, please record and return [] Merger [] Security Agreement [] Merger [] Security Agreement [] Change of Name [] Other Execution date of Assignment: April 24, 26 and May 4, 2001 4. Application number(s) or patent number(s). Additional Sheets attached? _ Yes X No A. Patent Application No.(s) PCT/US00/05227 FILED 1 MARCH 2000 If this document is being filed together with a new application, the execution date of the application is 5. Name and address of party to whom correspondence concerning documents should be mailed: James M. Kanagy King of Prussia, PA 19406-0939 King of Prussia, PA 19406-0939 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: James M. Kanagy 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: James M. Kanagy Signature. To tha 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: James M. Kanagy Name of Person Signing 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: Total number of pages including cover sheet, attachments and document: avgavpunppepponents. | 10100 | | I. |
| Mary S. Barnette Theodore J. Torphy Additional names of conveying party(ies) attached? [] yes [X] no OGGAI4203 3. Description of the interest conveyed: [X] Assignment, please record and return [] Merger [] security Agreement [] Change of Name Other Execution date of Assignment: April 24, 26 and May 4, 2001 4. Application number(s) or patent number(s). Additional Sheets attached?Yes X No A. Patent Application No.(s) PCT/US00/05227 FILED 1 MARCH 2000 If this document is being filed together with a new application, the execution date of the application is 5. Name and address of party to whom correspondence concerning documents should be mailed: James M. Kanagy GlaxoSmithKline Corporate Intellectual Property - UW2220 P.O. Box 1539 King of Prussia, PA 19406-0939 King of Prussia, PA 19406-0939 DO NOT USE THIS SPACE 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. 9. Statement and Signature. Total number of pages including cover sheet, attachrments and document: : nyuk/pumpetps/9909recas.dw | 1. Name of conveying party(les) | 2. Iname and a | iddress of receiving party(les) |
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| Additional names of conveying party(ies) attached? Philadelphia, PA 19103 Additional names of conveying party(ies) attached? Additional name(s) and addresses attached? I yes [X] no Additional name(s) and addresses attached? 3. Description of the interest conveyed: Additional name(s) and addresses attached? [X] Assignment, please record and return [] Merger [] Security Agreement [] Change of Name Other Execution date of Assignment: April 24, 26 and May 4, 2001 4. Application number(s) or patent number(s). Additional Sheets attached? Yes X No A. Patent Application No.(s) B. Patent No.(s) PCT/US00/05227 FILED 1 MARCH 2000 B. Patent No.(s) If this document is being filed together with a new application, the execution date of the application is 5. Name and address of party to whom correspondence concerning documents should be mailed: James M. Kanagy GlaxoSmithKline Corporate Intellectual Property - UW2220 P.O. Box 1539 King of Prussia, PA 19406-0939 Vising of Prussia, PA 19406-0939 DO NOT USE THUS SPACE 9. Statement and Signature. To the best of my knowledge and bellef, the foregoing information is true and correct and any attached corpy is a true copy of the original document. | • | 1 | |
| Additional names of conveying party(ies) attached? [] yes [X] no OGG14403 3. Description of the interest conveyed: [X] Assignment, please record and return [] Merger [] Security Agreement [] Change of Name Other Execution date of Assignment: April 24, 26 and May 4, 2001 4. Application number(s) or patent number(s). Additional Sheets attached? _ Yes X No A. Patent Application No.(s) PCT/US00/05227 FILED I MARCH 2000 If this document is being filed together with a new application, the execution date of the application is 5. Name and address of party to whom correspondence concerning documents should be mailed: James M. Kanagy GlaxoSmithKline Corporate Intellectual Property - UW2220 P.O. Box 1539 King of Prussia, PA 19406-0939 Evenuent 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. James M. Kanagy Signature Mames M. Kanagy Signature Total number of pages including cover sheet, attachments and document: - right/pauppept/9000Precas.dec EDW/JE 0000068 192570 09914703 | Theodore J. Torphy | 1 | |
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ASSIGNMENT

WHEREAS we, Siegfried B. Christensen, IV of Rivers Edge, 2301 Cherry Street, #4-M, Philadelphia, Pennsylvania 19013, United States of America, a citizen of the United States of America; Mary S. Barnette of 107 Oxford Road, West Chester, Pennsylvania 19380, United States of America, a citizen of the United States of America; and Theodore J. Torphy of 823 Mt. Pleasant Road, Bryn Mawr, Pennsylvania 19010, United States of America, a citizen of the United States of America; have made an invention entitled:

"Method for Treating COPD"

for which on ______ April 24, 26 and May 4, 2001 ______ we executed an application for Letters Patent of the United States under 35 U.S.C. §111(a), executed an application for Letters Patents of the United States under 35 U.S.C. §371, or filed a Provisional application under 35 U.S.C. §111(b):

NOW, THEREFORE, in return for valuable consideration paid to us by SmithKline Beecham Corporation, a corporation organized under the laws of the Commonwealth of Pennsylvania and having its principal place of business at One Franklin Plaza, 200 North 16th Street, Philadelphia, Pennsylvania 19103, the receipt and sufficiency of which is hereby acknowledged, and intending to be legally bound, we do hereby assign unto the said SmithKline Beecham Corporation, its successors and assigns, the entire right, title and interest in and to the said invention, executed under 35 U.S.C. §111(a), 35 U.S.C. §371, or filed under 35 U.S.C. §111(b) application, and from which priority may be claimed from one or more 35 U.S.C. §111(b) applications, or any division, continuation and continuation-in-part of said application, and all Letters Patent of the United States and all foreign countries to be obtained therefor;

We further assign to the said SmithKline Beecham Corporation the right, optionally in its own name or in the names of its related companies, to apply for, obtain and maintain in all countries foreign to the United States, patent and/or Utility Model applications for said invention, including the full right to claim for any such application the benefits of any priority rights based on said executed United States application;

And we agree to execute further instruments (including provisional, divisional, continuation, continuation-inpart or reissue applications or other instruments) proper to effectuate the premises, this agreement to be binding upon our heirs, executors and administrators;

And we request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue Letters Patent in accordance herewith.

Signed at King of Prussia, Pennsylvania, U.S.A.

| Seefrin B Church | une O | Date: April | 24,2000 |
|------------------------------|--------|-------------|---------|
| SIEGFRIED B. CHRISTENSEN, | IV | 7 | |
| Commonwealth of Pennsylvania |) | | |
| |) ss.: | | |
| County of Montgomery |) | | |

Before me, a Notary Public, personally appeared SIEGFRIED B. CHRISTENSEN, IV known to me to be the person who executed the foregoing assignment and acknowledged it to be his/her act and deed.

| Witness my hand and seal this 24 day o | f_ <u>April_</u> , 2000. |
|--|--|
| | June M. Mulligan |
| | Notarial Seal Irene M. Mulligan, Notary Public Upper Merion Twp., Montgomery County My Commission Expires Oct. 20, 2001 |

Member, Pennsylvania Association of Notaries

Signed at King of Prussia, Pennsylvania, U.S.A.

Mary & Bountu MARY S. WARNETTE

Commonwealth of Pennsylvania

County of Montgomery

)) ss.:)

Date: April 26,2000

Before me, a Notary Public, personally appeared MARY S. BARNETTE known to me to be the person who executed the foregoing assignment and acknowledged it to be his/her act and deed.

Witness my hand and seal this 26t day of 4pul, 2000. Notarial Seal Irene M. Mulligan, Notary Public Upper Merion Twp., Montgomery County My Commission Expires Oct. 20, 2001

Member, Pennsylvania Association of Notaries

Signed at King of Prussia, Pennsylvania, U.S.A.

Date 4 MAY 00

Commonwealth of Pennsylvania

))

County of Mongtomery

THEODORE J. TORPHY

Before me, a Notary Public, personally appeared THEODORE J. TORPHY known to me to be the person who executed the foregoing assignment and acknowledged it to be his/her act and deed.

Witness my hand and seal this _____ day of ____ 2000. an Notarial Seal Irene M. Mulligan, Notary Public Upper Merion Twp., Montgomery County My Commission Expires Oct. 20, 2001 Member, Pennsylvania Association of Notaries

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ss.:

P50900US

RECORDED: 08/31/2001