

8-26-99

FORM PTO-1619A
Expires 08/30/99
OMB 0651-0027

09-09-1999

U.S. Department of Commerce
Patent and Trademark Office
PATENT



101138896

**RECORDATION FORM COVER SHEET
PATENTS ONLY**

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

Submission Type

New

Resubmission (Non-Recordation)
Document ID# _____

Correction of PTO Error
Reel # _____ Frame # _____

Corrective Document
Reel # _____ Frame # _____

Conveyance Type

Assignment Security Agreement

License Change of Name

Merger Other 08804250

U.S. Government
(For Use ONLY by U.S. Government Agencies)

Departmental File Secret File

Conveying Party(ies)

Mark if additional names of conveying parties attached

Name (line 1) R. J. Reynolds Tobacco Company Execution Date
Month Day Year 04 09 1999

Name (line 2) a corporation of New Jersey

Second Party

Name (line 1) _____ Execution Date
Month Day Year _____

Name (line 2) _____

Receiving Party

Mark if additional names of receiving parties attached

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 1) Targacept, Inc.

Name (line 2) a corporation of Delaware

Address (line 1) P.O. Box 1487

Address (line 2) _____

Address (line 3) Winston-Salem, NC/USA 27102-1487
City State/Country Zip Code

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name Borschke, August J.

Address (line 1) _____

Address (line 2) _____

Address (line 3) P.O. Box 1487

Address (line 4) Winston-Salem, NC 27102-1487

09/08/1999 DNGUYEN 00000167 181102 08804250
01 FC:581 40.00 CH

FOR OFFICE USE ONLY

Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB Information Collection Budget Package 0651-0027, Patent and Trademark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS ADDRESS.

Mail documents to be recorded with required cover sheet(s) information to:
 Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231
 REEL: 010213 FRAME: 0056

Correspondent Name and Address **Area Code and Telephone Number**

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

Pages **Enter the total number of pages of the attached conveyance document including any attachments.** #

Application Number(s) or Patent Number(s) **Mark if additional numbers attached**

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)			Patent Number(s)		
<input type="text" value="08/804,250"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Patent Cooperation Treaty (PCT)

Enter PCT application number only if a U.S. Application Number has not been assigned.

PCT	<input type="text"/>	PCT	<input type="text"/>	PCT	<input type="text"/>
PCT	<input type="text"/>	PCT	<input type="text"/>	PCT	<input type="text"/>

Number of Properties **Enter the total number of properties involved.** #

Fee Amount **Fee Amount for Properties Listed (37 CFR 3.41):** \$

Method of Payment: Enclosed Deposit Account


Deposit Account
(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number: #

Authorization to charge additional fees: Yes No

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. Charges to deposit account are authorized, as indicated herein.

August J. Borschke  AUGUST 26, 1999

Name of Person Signing **Signature** **Date**

ASSIGNMENT

WHEREAS, R. J. REYNOLDS TOBACCO COMPANY, a corporation of the State of **NEW JERSEY** having its principal place of business at 401 North Main Street, Winston-Salem in the County of Forsyth and State of North Carolina is the assignee of United States Patent Application Serial No. **08/804,250**; filed **February 21, 1997**; having all rights, title and interest to said invention and patent application by Assignment recorded in the United States Patent Office on **June 13, 1997** on **Reel 8607** and **Frame 0335**.

NOW, THEREFORE, to all whom it may concern, be it known that **R. J. REYNOLDS TOBACCO COMPANY**, hereby sells, assigns and transfers for good and valuable consideration the receipt of which is hereby acknowledged to **TARGACEPT, INC.** a corporation of the State of **DELAWARE** having a place of business at **WINSTON-SALEM** in the County of **FORSYTH** and State of **NORTH CAROLINA** its successors, assigns and legal representatives, its entire right, title and interest for all countries, in and to the invention disclosed and claimed, and as possessed by the undersigned, any invention which is disclosed but not claimed, in United States Patent Application Serial No. **08/804,250** filed **February 21, 1997**; and entitled **PHARMACEUTICAL COMPOSITIONS INCORPORATING ARYL SUBSTITUTED OLEFINIC AMINE COMPOUNDS** and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed on any of said inventions disclosed in said application; and in and to all original and reissued patents which have been or shall be issued on said inventions;

Authorize and request the Commissioner of Patents and Trademarks to issue to the Assignees, the corporations above named, their successors, assigns and legal representatives, in accordance with this agreement, any and all United States Letters Patent on said inventions disclosed in said application;

Agree that said Assignees may apply for and receive foreign Letters Patent for said inventions; and may claim, in applications for said foreign Letters Patent, the priority of the aforesaid United States application under the provisions of the International Convention; and that, when requested, without charge to but at the expense of said Assignees, their successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will, for the United States and all foreign countries, execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignees, their successors, assigns, and representatives, all facts known

to the undersigned relating to said inventions and the history thereof; testify in all legal proceedings; and generally do everything possible which said Assignees, their successors, assigns or representatives shall consider desirable for aiding in securing, maintaining and enforcing proper protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said Assignees, their successors, assigns and legal representatives; and

COVENANT with said Assignees, their successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

IN WITNESS WHEREOF, R. J. REYNOLDS TOBACCO COMPANY has caused its corporate name to be hereunto subscribed by Gary T. Burger, and its seal to be hereunto affixed this 9th day of April, 1999.

R. J. REYNOLDS TOBACCO COMPANY

By: *Gary T. Burger*

STATE OF NORTH CAROLINA)
COUNTY OF DAVIDSON) SS.

Before me this 9th day of April, 1999 personally appeared Gary T. Burger to me personally known to be the person(s) who is/are described in and who executed the above instrument, and he/they acknowledged to me that he/they executed the same of his/their own free will for the purposes therein set forth.

Renee S. Prevette
Notary Public



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL for FY 1999

Patent fees are subject to annual revision.
 Small Entity payments must be supported by a small entity statement,
 otherwise large entity fees must be paid. See Forms PTO/SB/09-12.

Complete if Known

Application Number	08/804,250
Filing Date	February 21, 1997
First Named Inventor	Gary Maurice Dull
Examiner Name	Mukund J. Shah
Group / Art Unit	1611
Attorney Docket No.	627-210

TOTAL AMOUNT OF PAYMENT (\$) 40.00

<p>METHOD OF PAYMENT (check one)</p> <p>1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:</p> <p>Deposit Account Number: 18-1102 Deposit Account Name: R. J. Reynolds Tobacco</p> <p><input type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17</p> <p>2. <input type="checkbox"/> Payment Enclosed: <input type="checkbox"/> Check <input type="checkbox"/> Money Order <input type="checkbox"/> Other</p>	<p>FEE CALCULATION (continued)</p> <p>3. ADDITIONAL FEES</p> <table border="1"> <thead> <tr> <th>Large Entity Fee Code</th> <th>Small Entity Fee Code</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205 65 Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>127</td><td>50</td><td>227 25 Surcharge - late provisional filing fee or cover sheet.</td><td></td></tr> <tr><td>139</td><td>130</td><td>139 130 Non-English specification</td><td></td></tr> <tr><td>147</td><td>2,520</td><td>147 2,520 For filing a request for reexamination</td><td></td></tr> <tr><td>112</td><td>920*</td><td>112 920* Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>113</td><td>1,840*</td><td>113 1,840* Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>115</td><td>110</td><td>215 55 Extension for reply within first month</td><td></td></tr> <tr><td>116</td><td>380</td><td>216 190 Extension for reply within second month</td><td></td></tr> <tr><td>117</td><td>870</td><td>217 435 Extension for reply within third month</td><td></td></tr> <tr><td>118</td><td>1,360</td><td>218 680 Extension for reply within fourth month</td><td></td></tr> <tr><td>128</td><td>1,850</td><td>228 925 Extension for reply within fifth month</td><td></td></tr> <tr><td>119</td><td>300</td><td>219 150 Notice of Appeal</td><td></td></tr> <tr><td>120</td><td>300</td><td>220 150 Filing a brief in support of an appeal</td><td></td></tr> <tr><td>121</td><td>260</td><td>221 130 Request for oral hearing</td><td></td></tr> <tr><td>138</td><td>1,510</td><td>138 1,510 Petition to institute a public use proceeding</td><td></td></tr> <tr><td>140</td><td>110</td><td>240 55 Petition to revive - unavoidable</td><td></td></tr> <tr><td>141</td><td>1,210</td><td>241 605 Petition to revive - unintentional</td><td></td></tr> <tr><td>142</td><td>1,210</td><td>242 605 Utility issue fee (or reissue)</td><td></td></tr> <tr><td>143</td><td>430</td><td>243 215 Design issue fee</td><td></td></tr> <tr><td>144</td><td>580</td><td>244 290 Plant issue fee</td><td></td></tr> <tr><td>122</td><td>130</td><td>122 130 Petitions to the Commissioner</td><td></td></tr> <tr><td>123</td><td>50</td><td>123 50 Petitions related to provisional applications</td><td></td></tr> <tr><td>126</td><td>240</td><td>126 240 Submission of Information Disclosure Stmt</td><td></td></tr> <tr><td>581</td><td>40</td><td>581 40 Recording each patent assignment per property (times number of properties)</td><td>40.00</td></tr> <tr><td>146</td><td>760</td><td>246 380 Filing a submission after final rejection (37 CFR 1.129(a))</td><td></td></tr> <tr><td>149</td><td>760</td><td>249 380 For each additional invention to be examined (37 CFR 1.129(b))</td><td></td></tr> <tr><td colspan="3">Other fee (specify) _____</td><td></td></tr> <tr><td colspan="3">Other fee (specify) _____</td><td></td></tr> <tr> <td colspan="3">SUBTOTAL (1) (\$)</td> <td></td> </tr> </tbody> </table> <p>1. BASIC FILING FEE</p> <table border="1"> <thead> <tr> <th>Large Entity Fee Code</th> <th>Small Entity Fee Code</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>101</td><td>760</td><td>201 380 Utility filing fee</td><td></td></tr> <tr><td>106</td><td>310</td><td>206 155 Design filing fee</td><td></td></tr> <tr><td>107</td><td>480</td><td>207 240 Plant filing fee</td><td></td></tr> <tr><td>108</td><td>760</td><td>208 380 Reissue filing fee</td><td></td></tr> <tr><td>114</td><td>150</td><td>214 75 Provisional filing fee</td><td></td></tr> <tr> <td colspan="3">SUBTOTAL (1) (\$)</td> <td></td> </tr> </tbody> </table> <p>2. EXTRA CLAIM FEES</p> <table border="1"> <thead> <tr> <th>Total Claims</th> <th>Extra Claims</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>Independent Claims</td> <td>-20** =</td> <td>X</td> <td>=</td> </tr> <tr> <td>Multiple Dependent</td> <td>-3** =</td> <td>X</td> <td>=</td> </tr> </tbody> </table> <p>**or number previously paid, if greater; For Reissues, see below</p> <table border="1"> <thead> <tr> <th>Large Entity Fee Code</th> <th>Small Entity Fee Code</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>103</td><td>18</td><td>203 9 Claims in excess of 20</td><td></td></tr> <tr><td>102</td><td>78</td><td>202 39 Independent claims in excess of 3</td><td></td></tr> <tr><td>104</td><td>260</td><td>204 130 Multiple dependent claim, if not paid</td><td></td></tr> <tr><td>109</td><td>78</td><td>209 39 ** Reissue independent claims over original patent</td><td></td></tr> <tr><td>110</td><td>18</td><td>210 9 ** Reissue claims in excess of 20 and over original patent</td><td></td></tr> <tr> <td colspan="3">SUBTOTAL (2) (\$)</td> <td></td> </tr> </tbody> </table> <p>SUBTOTAL (3) (\$) 40.00</p> <p>* Reduced by Basic Filing Fee Paid</p>	Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid	105	130	205 65 Surcharge - late filing fee or oath		127	50	227 25 Surcharge - late provisional filing fee or cover sheet.		139	130	139 130 Non-English specification		147	2,520	147 2,520 For filing a request for reexamination		112	920*	112 920* Requesting publication of SIR prior to Examiner action		113	1,840*	113 1,840* Requesting publication of SIR after Examiner action		115	110	215 55 Extension for reply within first month		116	380	216 190 Extension for reply within second month		117	870	217 435 Extension for reply within third month		118	1,360	218 680 Extension for reply within fourth month		128	1,850	228 925 Extension for reply within fifth month		119	300	219 150 Notice of Appeal		120	300	220 150 Filing a brief in support of an appeal		121	260	221 130 Request for oral hearing		138	1,510	138 1,510 Petition to institute a public use proceeding		140	110	240 55 Petition to revive - unavoidable		141	1,210	241 605 Petition to revive - unintentional		142	1,210	242 605 Utility issue fee (or reissue)		143	430	243 215 Design issue fee		144	580	244 290 Plant issue fee		122	130	122 130 Petitions to the Commissioner		123	50	123 50 Petitions related to provisional applications		126	240	126 240 Submission of Information Disclosure Stmt		581	40	581 40 Recording each patent assignment per property (times number of properties)	40.00	146	760	246 380 Filing a submission after final rejection (37 CFR 1.129(a))		149	760	249 380 For each additional invention to be examined (37 CFR 1.129(b))		Other fee (specify) _____				Other fee (specify) _____				SUBTOTAL (1) (\$)				Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid	101	760	201 380 Utility filing fee		106	310	206 155 Design filing fee		107	480	207 240 Plant filing fee		108	760	208 380 Reissue filing fee		114	150	214 75 Provisional filing fee		SUBTOTAL (1) (\$)				Total Claims	Extra Claims	Fee from below	Fee Paid	Independent Claims	-20** =	X	=	Multiple Dependent	-3** =	X	=	Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid	103	18	203 9 Claims in excess of 20		102	78	202 39 Independent claims in excess of 3		104	260	204 130 Multiple dependent claim, if not paid		109	78	209 39 ** Reissue independent claims over original patent		110	18	210 9 ** Reissue claims in excess of 20 and over original patent		SUBTOTAL (2) (\$)			
Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid																																																																																																																																																																																										
105	130	205 65 Surcharge - late filing fee or oath																																																																																																																																																																																											
127	50	227 25 Surcharge - late provisional filing fee or cover sheet.																																																																																																																																																																																											
139	130	139 130 Non-English specification																																																																																																																																																																																											
147	2,520	147 2,520 For filing a request for reexamination																																																																																																																																																																																											
112	920*	112 920* Requesting publication of SIR prior to Examiner action																																																																																																																																																																																											
113	1,840*	113 1,840* Requesting publication of SIR after Examiner action																																																																																																																																																																																											
115	110	215 55 Extension for reply within first month																																																																																																																																																																																											
116	380	216 190 Extension for reply within second month																																																																																																																																																																																											
117	870	217 435 Extension for reply within third month																																																																																																																																																																																											
118	1,360	218 680 Extension for reply within fourth month																																																																																																																																																																																											
128	1,850	228 925 Extension for reply within fifth month																																																																																																																																																																																											
119	300	219 150 Notice of Appeal																																																																																																																																																																																											
120	300	220 150 Filing a brief in support of an appeal																																																																																																																																																																																											
121	260	221 130 Request for oral hearing																																																																																																																																																																																											
138	1,510	138 1,510 Petition to institute a public use proceeding																																																																																																																																																																																											
140	110	240 55 Petition to revive - unavoidable																																																																																																																																																																																											
141	1,210	241 605 Petition to revive - unintentional																																																																																																																																																																																											
142	1,210	242 605 Utility issue fee (or reissue)																																																																																																																																																																																											
143	430	243 215 Design issue fee																																																																																																																																																																																											
144	580	244 290 Plant issue fee																																																																																																																																																																																											
122	130	122 130 Petitions to the Commissioner																																																																																																																																																																																											
123	50	123 50 Petitions related to provisional applications																																																																																																																																																																																											
126	240	126 240 Submission of Information Disclosure Stmt																																																																																																																																																																																											
581	40	581 40 Recording each patent assignment per property (times number of properties)	40.00																																																																																																																																																																																										
146	760	246 380 Filing a submission after final rejection (37 CFR 1.129(a))																																																																																																																																																																																											
149	760	249 380 For each additional invention to be examined (37 CFR 1.129(b))																																																																																																																																																																																											
Other fee (specify) _____																																																																																																																																																																																													
Other fee (specify) _____																																																																																																																																																																																													
SUBTOTAL (1) (\$)																																																																																																																																																																																													
Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid																																																																																																																																																																																										
101	760	201 380 Utility filing fee																																																																																																																																																																																											
106	310	206 155 Design filing fee																																																																																																																																																																																											
107	480	207 240 Plant filing fee																																																																																																																																																																																											
108	760	208 380 Reissue filing fee																																																																																																																																																																																											
114	150	214 75 Provisional filing fee																																																																																																																																																																																											
SUBTOTAL (1) (\$)																																																																																																																																																																																													
Total Claims	Extra Claims	Fee from below	Fee Paid																																																																																																																																																																																										
Independent Claims	-20** =	X	=																																																																																																																																																																																										
Multiple Dependent	-3** =	X	=																																																																																																																																																																																										
Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid																																																																																																																																																																																										
103	18	203 9 Claims in excess of 20																																																																																																																																																																																											
102	78	202 39 Independent claims in excess of 3																																																																																																																																																																																											
104	260	204 130 Multiple dependent claim, if not paid																																																																																																																																																																																											
109	78	209 39 ** Reissue independent claims over original patent																																																																																																																																																																																											
110	18	210 9 ** Reissue claims in excess of 20 and over original patent																																																																																																																																																																																											
SUBTOTAL (2) (\$)																																																																																																																																																																																													

SUBMITTED BY				<i>Complete (if applicable)</i>	
Typed or Printed Name	August J. Borschke			Reg. Number	30,539
Signature		Date	08/26/99	Deposit Account User ID	18-1102

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.