Alm ERILLIO

6/9/5

11-08-2005

## 10 Rec'd PCT/FTO 09 JUN 2005

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereto:  1. Name of conveying party(ies):  2. Name and address of receiving party(ies):  3. Name and address of receiving party(ies):  Name: YUHAN CORPORATION  Street Address: 49-6 Taebang-dong, Tongjak-gu City: Seoul State:  2. Nam-Jin PARK 3. Ja-Heouk KHOO 4. Seong-Ho SONG 5. Ju-Young AN City: Republic of Korea  3. Nature of conveyance:  El Assignmen	FORM PTO-1595 1-31-92		U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office			
1. Name of conveying party(ies):  1. Tai-Au LEE  2. Nam-Jin PARK  3. Ja-Heouk KHOO  4. Seong-Ho SONG  5. Ju-Young AN  City: Scoul  State:  Zip: 156-754  Country: Republic of Korea  3. Nature of conveyance:  B Assignment  □ Other  Execution Date: May 9, 2005  4. Application number(s) or patent number(s):  If the document is being filed together with a new application, the execution date of the application is: n/a  A. Patent Application No(s).  Additional numbers attached? □ Yes ☒ No  5. Name and address of party to whom correspondence concerning document should be mailed:  Name:  LOWE HAUPTMAN & BERNER, LLP  Internal Address:  Street Address: 1700 Diagonal Road, Suite 300  City: Alexandria  City: Scoul  State:  Zip: 156-754  Country: Republic of Korea  Additional name(s) & address(es) attached? □ Yes ☒ No  B. Patent No(s).  B. Patent No(s).  Additional numbers attached? □ Yes ☒ No  6. Total number of applications and patents involved: one  7. Total fee (37 CFR 3.41).§	DOCKETTANO AREA 180					
1. Tai-Au LEE 2. Nam-Jin PARK 3. Ja-Heouk KHOO 4. Seong-Ho SONG 5. Ju-Young AN  2. Nature of conveyance: □ Security Agreement □ Change of Name □ Other  Execution Date: May 9, 2005 4. Application number(s) or patent number(s): If the document is being filed together with a new application, the execution date of the application is: n/a A. Patent Application No(s).  Additional numbers attached? □ Yes ☑ No  5. Name and address of party to whom correspondence concerning document should be mailed:  Name:  LOWE HAUPTMAN & BERNER, LLP Internal Address:  Street Address: 1700 Diagonal Road, Suite 300  City: Alexandria  City: Seoul State:  49.6 Tacbang-dong, Tongjak-gu City: Seoul State:  49.6 Tacbang-dong, Tongjak-gu City: Republic of Korea  Additional name(s) & address(es) attached? □ Yes ☑ No  Additional name(s) & address(es) attached? □ Yes ☑ No  6. Total number of applications and patents involved: one 7. Total fee (37 CFR 3.41).§	To the Honorable Commissioner of Patents and Trademarks:	Please record the atta	sched original documents or copy thereto:			
1. Tai-Au LEE 2. Nam-Jin PARK 3. Ja-Heouk KHOO 4. Seong-Ho SONG 5. Ju-Young AN 2. Tap: 156-754 Country: Republic of Korea  3. Nature of conveyance: 2. Assignment	Name of conveying party(ies):	2. Name ar	d address of receiving party(ies):			
2. Nature of conveyance:    Something   Security   Secu	1. Tai-Au LEE	Name:	YUHAN CORPORATION			
State:    Seong-Ho SONG   State:   Zip: 156-754   Country:   Republic of Korea	2. Nam-Jin PARK	Street Address:	49-6 Taebang-dong, Tongjak-gu			
Tip: 156-754  Country: Republic of Korea  Zip: 2314  Zip: 156-754  Country: Republic of Korea  Zip: 2156-754  Country: Republic of Korea	3. Ja-Heouk KHOO	City:	Seoul			
S. JH-Young AN    Country: Republic of Korea	4. Seong-Ho SONG	State:				
3. Nature of conveyance:  □ Assignment □ Change of Name □ Other  Execution Date: May 9, 2005 Additional name(s) & address(es) attached? □ Yes ☑ No  4. Application number(s) or patent number(s):  If the document is being filed together with a new application, the execution date of the application is: n/a  A. Patent Application No(s).  Additional numbers attached? □ Yes ☑ No  5. Name and address of party to whom correspondence concerning document should be mailed:  Name:  LOWE HAUPTMAN & BERNER, LLP  Internal Address:  Street Address: 1700 Diagonal Road, Suite 300  City: Alexandria State: VA Zip: 22314  DO NOT USE THIS SPACE  9. Signature.  Benjamin J. Hauptman, 29,310 Name of Person, Registration No.  Signature Date	5. Ju-Young AN	Zip:	156-754			
Execution Date: May 9, 2005  Additional name(s) & address(es) attached? □ Yes ☑ No  4. Application number(s) or patent number(s):  If the document is being filed together with a new application, the execution date of the application is: n/a  A. Patent Application No(s).  Additional numbers attached? □ Yes ☑ No  5. Name and address of party to whom correspondence concerning document should be mailed:  1. OWE HAUPTMAN & BERNER, LLP  Internal Address:  Street Address: 1700 Diagonal Road, Suite 300  City: Alexandria  State: VA Zip: 22314  DO NOT USE THIS SPACE  9. Signature.  Additional name(s) & address(es) attached? □ Yes ☑ No  6. Total number of applications and patents involved: one concerning document should be mailed:  7. Total fee (37 CFR 3.41),\$		Country:	Republic of Korea			
□ Security Agreement □ Change of Name □ Other  Execution Date: May 9, 2005  4. Application number(s) or patent number(s):  If the document is being filed together with a new application, the execution date of the application is: n/a  A. Patent Application No(s).  Additional numbers attached? □ Yes ☒ No  5. Name and address of party to whom correspondence concerning document should be mailed:  Name:  LOWE HAUPTMAN & BERNER, LLP  Internal Address:  Street Address: 1700 Diagonal Road, Suite 300  City: Alexandria State: VA Zip: 22314  DO NOT USE THIS SPACE  9. Signature.  Benjamin J. Hauptman, 29,310  Name of Person, Registration No.  Additional name(s) & address(es) attached? □ Yes ☒ No  6. Total number of applications and patents involved: one 7. Total fee (37 CFR 3.41).\$	3. Nature of conveyance:					
Additional name(s) & address(es) attached? ☐ Yes ☒ No  4. Application number(s) or patent number(s):  If the document is being filed together with a new application, the execution date of the application is: n/a  A. Patent Application No(s).  Additional numbers attached? ☐ Yes ☒ No  5. Name and address of party to whom correspondence concerning document should be mailed:  Name:  LOWE HAUPTMAN & BERNER, LLP  Internal Address:  Street Address: 1700 Diagonal Road, Suite 300  City: Alexandria State: VA Zip: 22314  DO NOT USE THIS SPACE  9. Signature.  Additional name(s) & address(es) attached? ☐ Yes ☒ No  6. Total number of applications and patents involved: one 7. Total fee (37 CFR 3.41).\$	☑ Assignment ☐ Merger					
Additional name(s) & address(es) attached?  \( \text{ Yes \bar No} \)  4. Application number(s) or patent number(s):  If the document is being filed together with a new application, the execution date of the application is: \( n/a \)  A. Patent Application No(s).    Additional numbers attached?  \( \text{ Yes \bar No} \)  5. Name and address of party to whom correspondence concerning document should be mailed:    Name:	☐ Security Agreement ☐ Change of Name	<b>)</b> :				
4. Application number(s) or patent number(s):  If the document is being filed together with a new application, the execution date of the application is: n/a  A. Patent Application No(s).  B. Patent No(s).  Additional numbers attached? ☐ Yes ☒ No  5. Name and address of party to whom correspondence concerning document should be mailed:  7. Total fee (37 CFR 3.41),\$	□ Other	1				
4. Application number(s) or patent number(s):  If the document is being filed together with a new application, the execution date of the application is: n/a  A. Patent Application No(s).  B. Patent No(s).  Additional numbers attached? ☐ Yes ☒ No  5. Name and address of party to whom correspondence concerning document should be mailed:  Name:  1. OWE HAUPTMAN & BERNER, LLP  Internal Address:  Street Address: 1700 Diagonal Road, Suite 300  City: Alexandria  State: VA Zip: 22314  DO NOT USE THIS SPACE  9. Signature.  Benjamin J. Hauptman, 29,310  Name of Person, Registration No.  Signature  Date						
If the document is being filed together with a new application, the execution date of the application is: n/a  A. Patent Application No(s).  B. Patent No(s).  Additional numbers attached?  No  5. Name and address of party to whom correspondence concerning document should be mailed:  Name:  LOWE HAUPTMAN & BERNER, LLP Internal Address:  Street Address: 1700 Diagonal Road, Suite 300  City: Alexandria  State: VA Zip: 22314  DO NOT USE THIS SPACE  9. Signature.  Benjamin J. Hauptman, 29,310  Name of Person, Registration No.  B. Patent No(s).  6. Total number of applications and patents involved: one 7. Total fee (37 CFR 3.41).\$	Execution Date: May 9, 2005	Additional name(s	& address(es) attached? ☐ Yes ☒ No			
A. Patent Application No(s).  Additional numbers attached?  No  5. Name and address of party to whom correspondence concerning document should be mailed:  Name:  LOWE HAUPTMAN & BERNER, LLP Internal Address:  Street Address: 1700 Diagonal Road, Suite 300  City: Alexandria  State: VA  Zip: 22314  DO NOT USE THIS SPACE  Benjamin J. Hauptman, 29,310  Name of Person, Registration No.  B. Patent No(s).  6. Total number of applications and patents involved: one 7. Total fee (37 CFR 3.41).\$	4. Application number(s) or patent number(s):					
Additional numbers attached?	If the document is being filed together with a new application, the	e execution date of th	e application is: n/a			
5. Name and address of party to whom correspondence concerning document should be mailed:  Name:  LOWE HAUPTMAN & BERNER, LLP  Internal Address:  Street Address: 1700 Diagonal Road, Suite 300  City: Alexandria  State: VA  Zip: 22314   Benjamin J. Hauptman, 29,310  Name of Person, Registration No.  6. Total number of applications and patents involved: one  7. Total fee (37 CFR 3.41),\$	A. Patent Application No(s).	B. Patent No(s).				
Name:  LOWE HAUPTMAN & BERNER, LLP  Internal Address:  Street Address: 1700 Diagonal Road, Suite 300  City: Alexandria  State: VA  DO NOT USE THIS SFACE   Benjamin J. Hauptman, 29,310  Name of Person, Registration No.  Signature  7. Total fee (37 CFR 3.41),\$ 40.00  Authorized to be charged to deposit account  Credit Card payment form enclosed  8. Deposit account number: 07-1337  DO NOT USE THIS SFACE  9. Signature.  June 9, 2005  Signature  Date	Additional numbers atta	ched? 🗖 Yes 🔀 N	0			
Name:  LOWE HAUPTMAN & BERNER, LLP  Internal Address:  Street Address: 1700 Diagonal Road, Suite 300  City: Alexandria  State: VA  Benjamin J. Hauptman, 29,310  Name of Person, Registration No.  Signature  7. Total fee (37 CFR 3.41).\$ 40.00  Enclosed  Authorized to be charged to deposit account  Enclosed  Do Not use This space  Signature  7. Total fee (37 CFR 3.41).\$ 40.00  Enclosed  Authorized to be charged to deposit account  Enclosed  Do Not use This space  Signature  Do Not use This space  Signature  Date	Name and address of party to whom correspondence	6. Total number of applications and patents involved: one				
Authorized to be charged to deposit account   Authorized to be charged to deposit account   Credit Card payment form enclosed		7. Total fee (37 CFR 3.41) \$ 40.00				
Internal Address:  Street Address: 1700 Diagonal Road, Suite 300  City: Alexandria State: VA Zip: 22314  DO NOT USE THIS SPACE  9. Signature.  Benjamin J. Hauptman, 29,310 Name of Person, Registration No.  Signature Date		☐ Enclosed				
Street Address: 1700 Diagonal Road, Suite 300  City: Alexandria State: VA Zip: 22314  DO NOT USE THIS SPACE  9. Signature.  Benjamin J. Hauptman, 29,310 Name of Person, Registration No.  Signature Date	LOWE HAUPTMAN & BERNER, LLP	1				
Street Address: 1700 Diagonal Road, Suite 300  City: Alexandria State: VA Zip: 22314  DO NOT USE THIS SPACE  9. Signature.  Benjamin J. Hauptman, 29,310  Name of Person, Registration No.  Signature Date	Internal Address:	□ Credit Card payment form enclosed				
9. Signature.  Benjamin J. Hauptman, 29,310 Name of Person, Registration No.  Do NOT USE THIS SPACE  June 9, 2005  Signature  Date	Street Address: 1700 Diagonal Road, Suite 300	8. Deposit accou	int number: 07-1337			
9. Signature.  Benjamin J. Hauptman, 29,310  Name of Person, Registration No.  Signature  Date	City: Alexandria State: VA Zip: 22314					
Benjamin J. Hauptman, 29,310  Name of Person, Registration No.  Signature  Date	DO NOT USE THIS SPACE					
Name of Person, Registration No. Signature Date	9. Signature.	Y				
Name of Person, Registration No. Signature Date	1	9				
	Benjamin J. Hauptman, 29,310		June 9, 2005			
Total number of pages including cover sheet, attachment, and document:	Name of Person, Registration No.	Signature	Date			
	Total number of pages including cover sheet, attachment, and document:  3					
CMB No. 0851-0011 (exp. 4/94)	CMB No. 0851-0011 (exp. 4/94)					

06/14/2005 LLANDGRA 00000032 10537945

04 FC:8021

40.00 DF

PATENT REEL: 017173 FRAME: 0164 Docket No.:

## **ASSIGNMENT**

	In consideration	on of the p	premises a	ind other good a	ind valuable	consideration i	in hand paid,	the
receipt :	and sufficiency	of which	is hereby	acknowledged,	the undersi	gned,		

(1) _	LEE, Tai Au	(6)
(2)	PARK, Nam Jin	(7)
(3)	KHOO, Ja Heouk	(8)
(4) _	SONG, Seong Ho	(9)
(5) _	AN, Ju Young	(10)

who have made a certain new and useful invention, hereby sell, assign and transfer unto

YUHAN CORPORATION, a corporation organized under the laws of Rep. of Korea located at 49-6 Taebang-dong, Tongjak-gu 156-754 Seoul, Rep. of Korea

its successors and assigns(hereinafter designated "ASSIGNEE" the entire right, title, and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

## PROCESSES FOR PREPARING QUINOLONECARBOXYLATE DERIVATIVES

(a) for which an application for Unit	ed States Letters Patent	was filed on	, and
identified by United States Serial No.		or	

(b) for which an application for United States Letters Patent was executed on,

and the undersigned hereby authorize and request the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefore and any and all extensions, divisions, reissues, substitutes, renewals, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or executed Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

Docket No.:

SIGNED on the dates indicated aside our signatures:

**INVENTORS** 

Lee Tai Are

Name: LEE, Tai Au

Name: PARK, Nam Jin

Name: KHOO, Ja Heouk

Name: SONG, Seong Ho

**RECORDED: 06/09/2005** 

Name: AN Ju Young

DATE SINGED

9 MAY , 2005

9 MAY , 2005

9 MAY \_\_\_\_\_, 2005

9 MAY , 2005

9 MAY , 2005