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PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Yusuke IRIYAMA	08/03/2012
Tsutomu HIGASHIYAMA	08/03/2012

RECEIVING PARTY DATA

Name:	NISSAN CHEMICAL INDUSTRIES, LTD.	
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City:	r: Tokyo	
State/Country:	State/Country: JAPAN	
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13579004

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ATTORNEY DOCKET NUMBER: 5485-0156PUS1

NAME OF SUBMITTER: Gerald M. Murphy, Jr.

Total Attachments: 2

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PATENT REEL: 028792 FRAME: 0832 OF \$40.00 135/9004

BIRCH, STEWART, KOLASCH & BIRCH, LLP

UNITED STATES PATENT RIGHTS, OR UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

ASSIGNMENT

Application No.	13/579,004	Filed	August 14, 2012	
Insert Name(s) of Inventor(s)	***(Given Name FAMILY NAME (ALL CAPS))*** Yusuke IRIYAMA, Tsutomu HIGASHIYAMA WHEREAS, hereinafter designated as the undersigned) has (have) invented certain new and useful improvements			
Insert Title of Invention	β-Dihydrofuran Deriving Comp Compound or β-Tetrahydrofura Method for Producing β-Glycos d4T and Analogue Compounds	m Deriving Compound, ide Compound, and Met	β-Glycoside Compound,	
	for which an application for Letters undersigned (except in the case of a		es of America has been executed by the	
Insert Date of Signing of Application Insert Name	on August 3, 2012 WHEREAS, NISSAN CHEMICAL INDUS	STRIES, LTD.	; and	
of Assignee Insert Address of Assignee CHECK BOX IF APPROPRIATE	of 7-1, Kanda Nishiki-cho 3-chome, Chi		AN	
		, title and interest in and to	einafter designated as the Assignee) is a said invention and in and to any Letters merica and	
I MINORALIA	NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories dependencies and possessions, and if the box above is designated, in any and all foreign countries;			
	and to any and all divisions, reissues or terms for which the same may be		ns and extensions thereof for the full term	

Attorney Docket No.	5485-0156PUS1

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree (s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignce and to vest all rights therein hereby conveyed to said Assignce as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the datc(s) opposite the undersigned name(s).

Date	August 3, 2012		Name of Inventor Susuke Iniyama (signature) Yusuke IRIYAMA
Date	August 3, 2012	,	Name of Inventor Tsatomu Higashi yama (signature) Tsutomu HIGASHIYAMA
Date			Name of Inventor(signature)
Date		,	Name of Inventor (signature)
Dato		,	Name of Inventor (signature)
Date		,	Name of Inventor (signature)

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