	ed States Paten	T AND TRADEMARK OFFICE	UNITED STATES DEPAR United States Patent and Address: COMMISSIONER I P.O. Box 1450 Alexandria, Virginia 22 www.uspto.gov	FOR PATENTS
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/986,310	01/07/2011	Nicholas S. Bodor	20009904-0067	6100
13974 DENTONS US	7590 06/25/201- LLP	4	EXAN	IINER
P.O. BOX 0610 Chicago, IL 60	080		LAU, JON	IATHAN S
Cincago, IL 00	000-1080		ART UNIT	PAPER NUMBER
			1673	
			NOTIFICATION DATE	DELIVERY MODE
			06/25/2014	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

martin.bruehs@dentons.com patents.us@dentons.com

> Merck 2047 TWi v Merck IPR2023-00049

		Application No.	Applicant(s)				
Response to Rule 312 Communication		12/986,310	BODOR ET AL.				
		Examiner	Art Unit				
		Jonathan S. Lau	1673				
The MAILING	DATE of this communication a	appears on the cover sheet with	the correspondence address –				
1 🕅 The amendment filed o	on <i>12 June 2014</i> under 37 CFB 1	.312 has been considered, and h	as been:				
a) a entered.	··· <u>·=·=···</u> ·····						
b) 🛛 entered as direct	ed to matters of form not affectin	g the scope of the invention.					
c) 🔲 disapproved beca	ause the amendment was filed a	fter the payment of the issue fee.					
	ent filed after the date the issue f ed fee to withdraw the applicatio		by a petition under 37 CFR 1.313(c)(1)				
	e explanation below.						
e) 🔲 entered in part. S	See explanation below.						
e) entered in part. See explanation below. The specification is amended to omit that which is well-known to those skilled in the art. Therefore this amendment is directed to matters of form not affecting the scope of the invention.							
/SHAOJIA ANNA JIANG/ Supervisory Patent Exam		/Jonathan S Lau/ Examiner, Art Unit 167	/3				

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: <u>Mail</u> Mail Stop ISSUE FEE **Commissioner for Patents** P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

13974 7590 DENTONS US LLP P.O. BOX 061080 Chicago, IL 60606-1080 03/13/2014

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTO	DRNEY DOCKET NO.	CONFIRMATION NO.	
12/986,310	01/07/2011	•	Nicholas S. Bodor		20009904-0067	6100	
TITLE OF INVENTION	: ORAL FORMULATIO	ONS OF CLADRIBINE					
APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	UNDISCOUNTED	\$960	\$0	\$O	\$960	06/13/2014	
EXAN	IINER	ART UNIT	CLASS-SUBCLASS]			
LAU, JON	ATHAN S	1673	514-046000	-			
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON PLEASE NOTE: Unless an assignee is identified below, no assignee recordation as set forth in 37 CFR 3.11. Completion of this form is NC (A) NAME OF ASSIGNEE 			or agents OR, alternativ (2) The name of a singl registered attorney or a 2 registered patent atto listed, no name will be THE PATENT (print or typ data will appear on the part a substitute for filing an (B) RESIDENCE: (CITY	 b) 3 registered patent attorvely, le firm (having as a memiagent) and the names of urneys or agents. If no narprinted. pe) atent. If an assignee is it assignment. and STATE OR COUNT 	dentified below, the de	DNS US LLP	
ARES TRAI	DING S.A.		AUBONNE, SWITZ	ZERLAND			
Please check the appropr	iate assignee category or	categories (will not be p	rinted on the patent) : \Box	Individual 🖄 Corpora	ion or other private gro	oup entity 📮 Governmen	
4a. The following fee(s) X Issue Fee Publication Fee (N X Advance Order - #	No small entity discount j		 b. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo 	rd. Form PTO-2038 is atta	iched.		
_ ~ ·	tus (from status indicate ng micro entity status. Se		<u>NOTE:</u> Absent a valid ce fee payment in the micro	rtification of Micro Entit	y Status (see forms PTC	D/SB/15A and 15B), issue	

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.						
Authorized Signature	/MARTIN A. BRUEHS/	Date JUNE 13, 2014				
Typed or printed name _	MARTIN A. BRUEHS	Registration No. 45635				

entity status, as applicable.

Applicant asserting small entity status. See 37 CFR 1.27 Applicant changing to regular undiscounted fee status.

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

<u>NOTE:</u> If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro

Electronic Patent Application Fee Transmittal					
Application Number:	12	12986310			
Filing Date:	07-	-Jan-2011			
Title of Invention:	ORAL FORMULATIONS OF CLADRIBINE				
First Named Inventor/Applicant Name:	Nic	holas S. Bodor			
Filer:	Ma	rtin A. Bruehs/Loui	e Malloy		
Attorney Docket Number:	20	009904-0067			
Filed as Large Entity					
Utility under 35 USC 111(a) Filing Fees					
Description		Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:					
Pages:					
Claims:					
Miscellaneous-Filing:					
Petition:					
Patent-Appeals-and-Interference:					
Post-Allowance-and-Post-Issuance:					
Utility Appl Issue Fee		1501	1	960	960
Extension-of-Time: Page 4 of 14					

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Printed Copy of Patent - No Color	8001	4	3	12
	Tot	al in USD	(\$)	972

Electronic Ac	Electronic Acknowledgement Receipt				
EFS ID:	19296893				
Application Number:	12986310				
International Application Number:					
Confirmation Number:	6100				
Title of Invention:	ORAL FORMULATIONS OF CLADRIBINE				
First Named Inventor/Applicant Name:	Nicholas S. Bodor				
Customer Number:	13974				
Filer:	Martin A. Bruehs/Louie Malloy				
Filer Authorized By:	Martin A. Bruehs				
Attorney Docket Number:	20009904-0067				
Receipt Date:	13-JUN-2014				
Filing Date:	07-JAN-2011				
Time Stamp:	11:55:10				
Application Type:	Utility under 35 USC 111(a)				

Payment information:

Document Number	Document Description	File Name Page 6 of 14	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)		
File Listing	g:						
Authorized Us	ser						
Deposit Accou	unt						
RAM confirma	tion Number	9528					
Payment was successfully received in RAM		\$972	\$972				
Payment Type 0		Credit Card					
Submitted wit	th Payment	yes					

1	lssue Fee Payment (PTO-85B)	0067 Issue Fee. pdf	138250 2eb3403798e7695bcf1f5c91bac8a384bf3f	no	1
Warnings:			2c9f		
Information	3				
		foo info odf	31792		2
2	Fee Worksheet (SB06)	fee-info.pdf	51ca62ba91c449063c4ba5d750bf4cf06af2f 90f	no	2
Warnings:					
Information					
		Total Files Size (in bytes)	1	70042	
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.					

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Nicholas S. BODOR et al.)	MAIL STOP ISSUE FEE
Application No.: 12/986,310)	Examiner: Jonathan S. LAU
Filed: January 7, 2011)	Group Art Unit: 1623
Title: ORAL FORMULATIONS OF CLADRIBINE)))	Confirmation No.: 6100

REPLY AND AMENDMENT PURSUANT TO 37 C.F.R. § 1.312

In response to the Notice to File Corrected Application Papers dated April 17, 2014, Applicants hereby submit the following amendment and remarks pursuant to 37 C.F.R. §1.312.

AMENDMENTS TO THE SPECIFICATION:

Please replace page 23 of the as-filed specification with the attached new page 23, which deleted the final sentence in the paragraph at lines 7-29.

Attached: Marked-Up and Clean Copies of Page 23

REMARKS

After allowance of this application, it was noted that page 23 of the as-filed specification contained references to applications for which no application numbers were given. These were provisional applications which were abandoned without the filing of non-provisional applications based thereon. Further, they were not for inventions of the present inventors and belonged to a former assignee. They were not made available to the public. In the parent case, now patented (Application No. 12/986, 310), the sentence in question was deleted during prosecution, by an amendment made October 3, 2008. Accordingly, page 23 of the specification has been amended to delete the final sentence on page 23, consistent with the parent.

This amendment was not proposed sooner because it was not realized that the error had not been corrected until after allowance. This amendment does not raise any new issues and thus is appropriate at this time. Entry is respectfully requested.

Respectfully submitted,

DENTONS US LLP

Date: June 12, 2014

<u>/Mary Katherine Baumeister/</u> Mary Katherine Baumeister Registration No. 26254

Customer No. 13974 Dentons US LLP 1301 K Street NW, Suite 600, East Tower Washington, D.C. 20005 Phone: 202-408-9186 Fax: 202-408-6399 -23-

Physicians, Vol. 111, No. 1, 35-44 (1999); Selby et al., The Canadian Journal of Neurological Sciences, 25, 295-299 (1998); Tortorella et al., Current Opinion in Investigational Drugs, 2 (12), 1751-1756 (2001); Rice et al., Neurology, 54, 1145-1155 (2000); and Karlsson et al., British Journal of Haematology, 116, 538-548 (2002); all of which are incorporated by reference herein in their entireties and relied upon.

Moreover, the route of administration for which the therapeutically effective dosages are taught in the literature should be taken into consideration. While the instant compositions optimize the bioavailability of cladribine following oral administration, it will be appreciated that even optimal bioavailability from oral dosage forms is not expected to approach bioavailability obtain after intravenous administration, particularly at early time points. Thus, it is often appropriate to increase a dosage suggested for intravenous administration to arrive at a suitable dosage for incorporation into a solid oral dosage form. At the present time, it is envisioned that, for the treatment of multiple sclerosis, 10 mg of cladribine in the instant complex cladribine-cyclodextrin complex in the instant solid dosage form would be administered once per day for a period of five to seven days in the first month, repeated for another period of five to seven days in the second

20 month, followed by ten months of no treatment. Alternatively the patient would be treated with 10 mg of cladribine in the instant complex cladribinecyclodextrin complex in the instant dosage form once per day for a period of five to seven days per month for a total of six months, followed by eighteen months of no treatment. For further dosing information, see also U.S.

25 Provisional Patent Application No. ______[IVAX0021-P-USA/Attorney-Docket No. 033935-011], and U.S. Provisional Patent Application No. ______[IVAX0022-P-USA/Attorney Docket No. 033935-012], both entitled "Cladribine Regimen for Treating Multiple Scierosis", both filed on March 25, 2004 and incorporated by reference herein in their entireties.

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-23-

Physicians, Vol. 111, No. 1, 35-44 (1999); Selby et al., The Canadian Journal of Neurological Sciences, 25, 295-299 (1998); Tortorella et al., Current Opinion in Investigational Drugs, 2 (12), 1751-1756 (2001); Rice et al., Neurology, 54, 1145-1155 (2000); and Karlsson et al., British Journal of Haematology, 116, 538-548 (2002); all of which are incorporated by reference herein in their entireties and relied upon.

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Electronic Ac	Electronic Acknowledgement Receipt				
EFS ID:	19292491				
Application Number:	12986310				
International Application Number:					
Confirmation Number:	6100				
Title of Invention:	ORAL FORMULATIONS OF CLADRIBINE				
First Named Inventor/Applicant Name:	Nicholas S. Bodor				
Customer Number:	13974				
Filer:	Mary Katherine Baumeister/Rebecca Brimmer				
Filer Authorized By:	Mary Katherine Baumeister				
Attorney Docket Number:	20009904-0067				
Receipt Date:	12-JUN-2014				
Filing Date:	07-JAN-2011				
Time Stamp:	18:18:08				
Application Type:	Utility under 35 USC 111(a)				

Payment information:

Submitted with Payment		no	no				
File Listing:							
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)		
1		312-Amendment.pdf	189700 1aaf1c6d1026e3403772a0cb4aacbef87c09 39d9	yes	5		

	Multipart Description/PDF files in .zip description				
	Document Description	Start	End		
	Amendment after Notice of Allowance (Rule 312)	1	1		
	Specification	2	2		
	Applicant Arguments/Remarks Made in an Amendment	3	3		
	Specification	4	5		
Information	pper and may affect subsequent processing				
	Total Files Size (in bytes): 189700				
characterize Post Card, a: <u>New Applica</u>	vledgement Receipt evidences receipt on the noted date by the USI d by the applicant, and including page counts, where applicable. It s described in MPEP 503. <u>Ations Under 35 U.S.C. 111</u> lication is being filed and the application includes the necessary co	serves as evidence o mponents for a filing	f receipt similar t date (see 37 CFF		
1.53(b)-(d) a	nd MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due co ement Receipt will establish the filing date of the application.	ourse and the date sh	own on this		
1.53(b)-(d) a Acknowledg <u>National Sta</u> If a timely su U.S.C. 371 a		n is compliant with th g acceptance of the a	e conditions of 3 pplication as a		

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.