PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Markus Herz	10/10/2011
Martin Richter	10/28/2011
Manuel Sutter	10/11/2011

RECEIVING PARTY DATA

Name:	Fraunhofer-Gesellschaft zur Foerderung der angewandten Forschung e.V.	
Street Address:	Hansastrasse 27c	
City:	Muenchen	
State/Country:	GERMANY	
Postal Code:	80686	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13228258

CORRESPONDENCE DATA

Fax Number: (650)474-8401 Phone: 650-474-8400

Email: ptomatters@glenn-law.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US

GLENN PATENT GROUP Correspondent Name: 3475 EDISON WAY, SUITE L Address Line 1: Address Line 4: MENLO PARK, CALIFORNIA 94025

ATTORNEY DOCKET NUMBER: SCHO0752C

NAME OF SUBMITTER: Michael A. Glenn

Total Attachments: 3

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REEL: 027251 FRAME: 0587

PATENT 501728881

Attorney Docket No.: SCHO0752C

ASSIGNMENT

WHEREAS, We/l, <u>Markus HERZ, Martin RICHTER</u>, and <u>Manuel SUTTER</u>, hereinafter referred to as "ASSIGNOR(S)", have invented certain new and useful improvements, as described and set forth in the below-identified application for United States Letters Patent entitled:

PUMP HAVING A FILTER ARRANGEMENT

Filing Date: September 8, 2011	Serial No. <u>13/228,258</u>
WHEREAS, <u>Fraunhofer-Gesellschaft zur Foerderung</u> duly organized under and pursuant to the laws of the business at <u>Hansastrasse 27c</u> , 80686 <u>Muenchen</u> , <u>Ger</u> desirous of acquiring the entire right, title, and interest Letters Patent which may be granted with regard to the	country of Germany, having its principal place of many, hereinafter referred to as "ASSIGNEE", is t in the said invention and application and in any
NOW, THEREFORE, TO ALL WHOM IT MAY CONCE other good and valuable consideration, ASSIGNOR(S) these presents does sell, assign, and transfer unto the and assigns, all right, title, and interest in and to said in Patent and any Letters Patent which may be hereafter countries throughout the world, including any divisi substitutions, conversions, reissues, revivals, prolongat and enjoyed by said ASSIGNEE as fully and exclusivel ASSIGNOR(S) had this assignment and transfer not be	b) have sold, assigned, and transferred, and by e said ASSIGNEE, and ASSIGNEE'S successors evention, said application for United States Letters granted on the same in the United States and all ions, renewals, continuations in whole or part, don, or extensions thereof, said interest to be held by as it would have been held and enjoyed by said
ASSIGNOR(S) further agrees that they will, without expense, cooperate with ASSIGNEE in the prosecution verify, acknowledge, and deliver all such further papers the reissue thereof, and instruments of assignment and as ASSIGNEE may lawfully request, to obtain or improvement in any and all countries, and to vest to successors and assigns.	n of said application and/or applications, execute, s, including applications for Letters Patent and for I transfer thereof, and will perform such other acts maintain Letters Patent for sald invention and
ASSIGNOR(S) grants the attorney of record the p identification that may be necessary or desirable in or Patent and Trademark Office for recordation of this doc	der to comply with the rules of the United States
This Assignment may be executed in one or more or original and all of which may be taken together as one a	counterparts, each of which shall be deemed an and the same Assignment.
IN TESTIMONY WHEREOF, ASSIGNOR(S) has hereus indicated below.	nto signed his name to the assignment on the date 10/10/2011 Date
Markus HERZ	Date
Martin RICHTER	Date
Manuel SUTTER	Date

PATENT REEL: 027251 FRAME: 0588

Attorney Docket No.: SCHO0752C

ASSIGNMENT

WHEREAS, We/I, <u>Markus HERZ, Martin RICHTER, and Manuel SUTTER</u>, hereinafter referred to as "ASSIGNOR(S)", have invented certain new and useful improvements, as described and set forth in the below-identified application for United States Letters Patent entitled:

PUMP HAVING A FILTER ARRANGEMENT

	Filing Date:	September 8, 2011	Serial No	13/228,258
WHEREAS, Fraunhofer-Gesellschaft zur Foerderung der angewandten Forschung e.V., a corporation duly organized under and pursuant to the laws of the country of Germany, having its principal place of business at Hansastrasse 27c, 80686 Muenchen, Germany, hereinafter referred to as "ASSIGNEE", is desirous of acquiring the entire right, title, and interest in the said invention and application and in any Letters Patent which may be granted with regard to the same.				
other good and these presents and assigns, all Patent and any countries through substitutions, co- and enjoyed by	valuable conside does sell, assign, right, title, and into Letters Patent wh ghout the world, proversions, reissue said ASSIGNEE a	eration, ASSIGNOR(S) and transfer unto the erest in and to said inv ich may be hereafter of including any divisions, revivals, prolongations	have sold, assigned said ASSIGNEE, and yention, said application or the same in the same i	for One Dollar (\$1.00) and I, and transferred, and by I ASSIGNEE'S successors on for United States Letters on the United States and alluations in whole or part, eof, said interest to be held in held and enjoyed by said
ASSIGNOR(S) further agrees that they will, without charge to said ASSIGNEE, but at ASSIGNEE'S expense, cooperate with ASSIGNEE in the prosecution of said application and/or applications, execute, verify, acknowledge, and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as ASSIGNEE may lawfully request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said ASSIGNEE, or ASSIGNEE'S successors and assigns.				
identification that	at may be necess:	ney of record the po ary or desirable in ord ecordation of this docu	ler to comply with the	s Assignment any further rules of the United States
			ounterparts, each of wond the same Assignment	which shall be deemed an ent.
IN TESTIMONY indicated below		IGNOR(S) has hereun	to signed his name to	the assignment on the date
Markus HERZ Martin RICHTE	l: L R		Date 28, AO. AA Date	
Manuel SUTTE	R		Date	

PATENT REEL: 027251 FRAME: 0589

Attorney Docket No.: SCHO0752C

ASSIGNMENT

WHEREAS, We/l, <u>Markus HERZ, Martin RICHTER, and Manuel SUTTER</u>, hereinafter referred to as "ASSIGNOR(S)", have invented certain new and useful improvements, as described and set forth in the below-identified application for United States Letters Patent entitled:

PUMP HAVING A FILTER ARRANGEMENT

	Filing Date:	September 8, 2011	Serial No	13/228,258
duly organized of business at <u>Har</u> desirous of acqu	under and pursuansatrasse 27c, a ulring the entire	ant to the laws of the cour 30686 <u>Muenchen, German</u>	ntry of Germany, he ly, hereinafter refer the said invention a	chung e.V., a corporation aving its principal place of red to as "ASSIGNEE", is and application and in any
other good and these presents and assigns, all Patent and any countries throus substitutions, co- and enjoyed by	valuable considudes sell, assign right, title, and in Letters Patent wighout the world priversions, reissuit ASSIGNEE	leration, ASSIGNOR(S) had and transfer unto the sauterest in and to said invention may be hereafter grain, including any divisions, les, revivals, prolongation,	ave sold, assigned id ASSIGNEE, and tion, said applicationted on the same in renewals, continuor extensions there it would have beer	for One Dollar (\$1.00) and , and transferred, and by ASSIGNEE'S successors in the United States Letters in the United States and all partions in whole or part sof, said interest to be held in held and enjoyed by said
expense, coope verify, acknowle the reissue there as ASSIGNEE	erate with ASSIG edge, and deliver eof, and instrume may lawfully re any and all co	NEE in the prosecution of all such further papers, in ents of assignment and tran equest, to obtain or main	said application an cluding applications nsfer thereof, and w ntain Letters Pater	NEE, but at ASSIGNEE'S d/or applications, execute for Letters Patent and for will perform such other acts for said invention and SIGNEE, or ASSIGNEE'S
identification that	at may be neces	mey of record the powe sary or desirable in order recordation of this docume	to comply with the	Assignment any furthe rules of the United States
This Assignment original and all of	nt may be execu of which may be t	ited in one or more coun aken together as one and t	terparts, each of w the same Assignme	/hich shall be deemed ar nt.
IN TESTIMONY indicated below.		SIGNOR(S) has hereunto s	signed his name to t	the assignment on the date
Markus HERZ		Da	ate	
Martin RICHTER		Da	ate 11 10 00	 V11
Manuel SUTTE	<u> </u>		ate	MIT (

PATENT REEL: 027251 FRAME: 0590