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08-02-2001

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

ET

To the Honorable Commissioner of Patent	796223 d original documents or copy thereof
1. Name of conveying party(ies): (1) Ryan C. Hayward; (2) Hak F. Poon; (3) Dudley A. Saville; (4) Ilhan Aksay Additional name(s) of conveying party(ies) attached? YES NO 3. Nature of Conveyance: Assignment	2. Name and address of receiving party(ies): Name: Princeton University Internal Address: Street Address: City: Princeton State: NJ ZIP:08544-0036 Additional name(s) & address(es) attached? YES NO
4. Application number(s) or patent number(s): If this document is being filed together with a new appli A. Patent Application Number(s) 09/843,509	ication, the execution date of the application is: B. Patent Number(s)
Additional number(s) attached? YES NO	
5.Name and address of party to whom correspondence concerning document should be mailed: Name: Steven E. Bach	6. Total number of applications and patents involved: 01
Internal Address: Ratner & Prestia Street Address: Suite 301, One Westlakes, Berwyn, P.O. Box 980	7. Total fee (37 CFR 3.41): \$ 40.00 Enclosed Authorized to be charged to deposit account
City: Valley Forge State: PA ZIP: 19482-0980	8. Deposit account number: 18-0350 (Attach duplicate copy of this page if paying by deposit account.)
DO NOT US	SE THIS SPACE
9. Statement and signature.	ormation is true and correct and any attached copy is a true
•	7/27/01
Name of Person Signing Signature 46,530	Date
Registration. No. Total number of pages including co	ver sheet, attachments, and document: 8
OMB No. 0651-0011 (exp. 4/94) Do not deta	ach this portion
	Patents and Trademarks .ssignments

USPTO Form 1595 [R&P]

S. Patent ApplicationFile to be assign.

ASSIGNMENT

Whereas, we the undersigned, being citizens of the United States residing as stated below, have invented a technology entitled, ELECTROHYDRODYNAMICALLY PATTERNED COLLOIDAL CRYSTAL

for which an Application for United States Letters Patent has been executed by me on ________.

AND WHEREAS, Princeton University having a principle place of business in Princeton, New Jersey, as assignee, is desirous of acquiring all right, title and interest in and to said invention and Letters Patent that may be granted therefor.

NOW THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, I (we) as assignor(s) hereby sell, assign and set over to said assignee the entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid application for Letters Patent, all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and legal representatives, heirs and assigns do hereby agree and covenant without the undersigned for our further remuneration, to execute and deliver all divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements. whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

First inventor: Kyan Hayward	Residing at: 1227-1	Priniates St. Apt. A ZAE Burbue, (A
Executed application on: 4/24/01 date	4/24/01 Date	signature
STATE OF NEW JERSEY: COUNTY OF MERCER: On this day of		came the above named
foregoing instrument, who acknowledge of his free will for the purposes therein s	to me personally known as t d to me that the same was execu	ne individual(s) who executed the ted by him otorial licate
(seal)		
Second inventor:	Residing at:	
Executed application on: date	Date	signature

STATE OF NEW JERSEY:

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California	1	
Santa Barbara	ss.	
County of Salita Baibala	J	
on <u> </u>	stina Ann Mahland, Notary Pub Name and Title of Officer (e.g., "Jane Doe, Nota Stopher Hayvard	lic ry Public")
,		
	☐ personally known to me▶ proved to me on the basis evidence	of satisfactory
KRISTINA ANN MAHLAND 8 1250973 NOTARY PUBLIC - CALIFORNIA D VENTURA COUNTY Wy Comm. Expires JANUARY 22, 2084	to be the person(s) whose is subscribed to the within in acknowledged to me that he/ehe the same in his/her/their capacity(ies), and that by signature(s) on the instrument the entity upon behalf of which acted, executed the instrument.	strument and e/they executed f authorized his/her/their ne person(s), or
Character Control Cont	WITNESS my band and official	seal.
		A
Place Notary Seal Above	Signature of Notary Public	2/5
OP	TIONAL	
Though the information below is not required by law	, it may prove valuable to persons relying o	
Description of Attached Document	d reattachment of this form to another docu	
Title or Type of Document: ASSIGNM	KNT	<u> </u>
Title or Type of Document: ASSIGNM Document Date: 4-24-01	Number of Pages:	lpg
		. •
Signer(s) Other Than Named Above:		
Capacity(ies) Claimed by Signer		
Signer's Name:		RIGHT THUMBPRINT OF SIGNER
☐ Corporate Officer — Title(s):	-	Top of thumb here
☐ Partner — ☐ Limited ☐ General		
☐ Attorney in Fact		
☐ Trustee		
☐ Guardian or Conservator		
Other:		-
Signer Is Representing:		
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	, 19, before me person to me personally known	
foregoing instrument, who ack	knowledged to me that the same was ex	secuted by him
of his free will for the purpose	s therein set forth.	
Notary Public		
(seal)		
Third inventor:	Residing at:	
	-	
Executed application on: date	Date	signature
STATE OF NEW JERSEY:		
COUNTY OF MERCER:	SS:	
	, 19, before me person:	aller arrow the above
On this day of	to me personally known a	ally came the above named as the individual(s) who executed the
	mowledged to me that the same was ex	ecuted by him
of his free will for the purposes	s therein set forth.	
Notary Public		
•		
(seal)		
Fourth inventor:	Residing at:	
Executed application on:		
	Date	
date		signature
date STATE OF NEW JERSEY:		signature
date STATE OF NEW JERSEY:	5S:	signature
date STATE OF NEW JERSEY: :SCOUNTY OF MERCER:		5
date STATE OF NEW JERSEY: COUNTY OF MERCER: On this day of	, 19, before me persona	ally came the above named as the individual(s) who executed the

:SS:

Notary Public		
(seal)		
Fifth inventor:	Residing at:	
Executed application on: date	Date	signature
STATE OF NEW JERSEY: :SS: COUNTY OF MERCER:		
On this day of foregoing instrument, who acknowledg of his free will for the purposes therein	to me personally known as t led to me that the same was execu	the individual(s) who executed the
Notary Public		

(seal)

S. Patent ApplicationFile to be assign-

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Whereas, we the undersigned, being citizens of the United States residing as stated below, have invented a technology entitled, ELECTROHYDRODYNAMICALLY PATTERNED COLLOIDAL CRYSTALS

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the ent and the applica the Co improve unders remunders or its restify involve assigned	eipt of which is hereby acknowledged ire right, title and interest for the Uni- e aforesaid application for Letters Pat- ations and patents applied for or grant mmissioner of Patents and Trademark vements or resulting therefrom to said igned for our—legal representative eration, to execute and deliver all divi- d improvements and all assignments the epresentatives all facts known to the in any interferences or other legal pro- ed, to sign all lawful papers, make all	d, I (we) as assignor(s) hereby ted States of America and all tent, all original, divisional, couted therefor in the United State ks is hereby authorized and red assignee herein, as assignee wes, heirs and assigns do herebisional, continuation, reissue a thereof to said assignee or its a undersigned respecting said in occedings in which any of said rightful oaths, and to do generes to obtain patent protection	es of America and all other countries, and equested to issue all patents on said of the entire interest therein; and the by agree and covenant without further and other applications for Letters Patent assigns, to communicate to said assignee approvements, whenever requested, to d applications or patents may become erally everything necessary to aid for said improvements in all countries,
First ir	nventor:	Residing at:	
Execut	ed application on:		
	date	Date	signature
	E OF NEW JERSEY: :SS: NTY OF MERCER:		
	s day of	to me personally kno	own as the individual(s) who executed the
	ing instrument, who acknowledged to free will for the purposes therein set f	me that the same was execut	ed by him
Notary	Public		

(seal)

Second inventor: Hak F. Po	Res	siding at:	
Executed application on:date	<u>4-25-2001</u> Date	Signature	
STATE OF NEW JERSEY: :SS: COUNTY OF MERCER:			
foregoing instrument, who acknowled of his free will for the purposes there will be a seal of the purposes there will be a seal of the purpose of the purpos	to me persedged to me that the same w	onally known as the individual(s)	
Third inventor:	Residing at	:	
Executed application on:			
date	Date	signature	
STATE OF NEW JERSEY: :SS: COUNTY OF MERCER:			
On this day of	to me perso	onally known as the individual(s)	amed who executed the
foregoing instrument, who acknowled this free will for the purposes there	eaged to me that the same w	as executed by him	
Notary Public			
(seal)			

Fourth inventor: Dudley A Soulle	Residing at:
Executed application on:date	Date Signature
STATE OF NEW JERSEY: :SS:	
COUNTY OF MERCER:	
On this 25 day of April foregoing instrument, who acknowledged to a of his free will for the purposes therein set for	
(seal) NOTARY PUBLI	NONTEMARANO IC OF NEW JERSEY Expires 11/3/2005
Fifth inventor: I han A. Aksay	Residing at:
Executed application on:date	APRIL 25,200/ Signature
STATE OF NEW JERSEY:	
:SS: COUNTY OF MERCER:	
On this 25th day of April	, \forall \for
foregoing instrument, who acknowledged to roof his free will for the purposes therein, set for	me that the same was executed by him
Notary Public (seal) JOSEPH A. I. NOTARY PUB	MONTEMARANO BLIC OF NEW JERSEY 10 Expires 11/3/2005

RECORDED: 07/30/2001