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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Tomotaka ISHIDA	07/10/2008
Mitsuru YAMAMOTO	07/10/2008
Sakae KITAJO	07/10/2008
Kazuo TAGA	07/10/2008
Kazuhiro KUMAKURA	07/10/2008

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12162716

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PATENT REEL: 021711 FRAME: 0723

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NAME OF SUBMITTER:	Howard L. Bernstein
Total Attachments: 2 source=Assignment 2#page1.tif source=Assignment 2#page2.tif	

PATENT REEL: 021711 FRAME: 0724

Assignment

assignee), and to any No I/W assignee, in nvention of	in an applicatereas, desires to United Stave therefore successor tisclosed tile. S.C. §119 Patent grand assign	lication for ion No. P NEC Cor 7-1, Shib Showa Do 13-9, Shi acquire thates patents be, for valuate or and assisterein for 19, and I/we anted upons; and I/wens;	r Letters Patent of the United States of America corresponding to PCT/JP2007/051746 filed on January 26, 2007; a proporation, ba 5-chome, Minato-ku, Tokyo, Japan and penko K. K., iba Daimon 1-chome, Minato-ku, Tokyo 105-8518, Japan and penko K. K., iba Daimon 1-chome, Minato-ku, Tokyo 105-8518, Japan and pentire right, title, and interest in the application and invention at the obtained therefor; hable consideration, receipt whereof is hereby acknowledged, assignor(s), hereby sell, assign and transfer to the above named signs, the entire right, title and interest in the application and the the United States of America, including the right to claim priorie request the Director — U.S. Patent and Trademark Office to iss in the invention set forth in the application to the assignee, its we will execute without further consideration all papers deemed
assignee), nd to any No I/W ssignee, in nvention of	desires to United Sta w therefore e, the abo s successor lisclosed the S.C. §119 Patent gra and assign	NEC Con 7-1, Shib Showa De 13-9, Shi acquire th ates patents e, for valua- ve named ors and assi- herein for the 9, and I/we anted upon ns; and I/we	PCT/JP2007/051746 filed on January 26, 2007; a proporation, ba 5-chome, Minato-ku, Tokyo, Japan and penko K. K., iba Daimon 1-chome, Minato-ku, Tokyo 105-8518, Japan are entire right, title, and interest in the application and invention at to be obtained therefor; table consideration, receipt whereof is hereby acknowledged, assignor(s), hereby sell, assign and transfer to the above named signs, the entire right, title and interest in the application and the the United States of America, including the right to claim priority is request the Director – U.S. Patent and Trademark Office to iss in the invention set forth in the application to the assignee, its
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necessary loso by the	•		onnection with the United States application when called upon to
ennsylva	nia Avenue	e, NW, Wa	and request our attorneys SUGHRUE MION, PLLC of 2100 ashington, DC 20037-3213 to insert here in parentheses and Confirmation number , filed) the filing date
and applic	ation numl	oer of said	application when known.
Date: Jı	ily 10,	2008	Tomotaka Ishida (6)
Date: Ji	aly 10,	2008	s/ Tomotaka ISHIDA Mitsuru Yamamoto
Date: Ju	ıly 10,	2008	s/ Mitsuru YAMAMOTO Sakae Kitago
Date:			s/ Sakae KITAJO
			s/ Kazuo TAGA
Date:	•		
			s/ Kazuhiro KUMAKURA
Witness:		3 .	
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REEL: 021711 FRAME: 0726

Assignment

		TC DEVICE	COOLING APP	ARATUS
as set forth in an a international appl	application for lication No. PC	Letters Patent of CT/JP2007/051	of the United State 746 filed on	es of America corresponding to January 26, 2007; a
Whereas, (assignee), desires	Showa Den 13-9, Shibs s to acquire the	5-chome, Minako K. K., a Daimon 1-che entire right, tit	le, and interest in	pan and Tokyo 105-8518, Japan the application and invention
Now there	fore, for valuat	ble consideration	n, receipt whereo	f is hereby acknowledged,
successors and as necessary by the a do so by the assig I/We here! Pennsylvania Ave	signs; and I/we assignee in connuee. by authorize anenue, NW, Was	will execute w nection with the d request our a hington, DC 20	ithout further con to United States ap ttorneys SUGHRV 0037-3213 to inse	lication to the assignee, its sideration all papers deemed plication when called upon to UE MION, PLLC of 2100 rt here in parentheses
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Date: Date: Date: July 1		s/ Tomotaka IS s/ Mitsuru YA)	MAMOTO TO A Vo Kamal	the filing date
Date: Date: Date: July 1	10, 2008	s/ Tomotaka IS s/ Mitsuru YA) s/ Sakae KITA OLZ (s/ Kazuo IAG	MAMOTO TO A Vo Kamal	the filing date Augustian Baka
Date: Date: Date: Date: July 1 Witness:	10, 2008 10, 2008	s/ Tomotaka IS s/ Mitsuru YA) s/ Sakae KITA OLZ M s/ Kazuo TAG Kazun i s/ Kazuhiro Ki	MAMOTO JO LO Tago A VO Kanak UMAKURA	the filing date A Baba Recution under PATENII)