	05-24-2	Poocket N	No.: KD-01-004US
FOPM PTO-15°5 (Modified) R 03-01) DMB No. 0651-0027 (exp.5/31/2002) P08A/REV03  APR 3	E CA	IIII 1754	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office
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To the Honorable Commissi	oner of atents and Trademarks:	1	riginal documents or copy thereof.
1. Name of conveying party (EDOANE, Joseph W.		2. Name and address of rec	
KHAN, Asad A.	5.6.02	Name: KENT DISPLAY	S, INC.
SEED, Alexander J.	J • 3 • 2	Address: 343 Portage Bl	vd. 💫
Additional names(s) of conveying pa	arty(ies) Yes No		NAY OF TOO State/Prov.: OH
3. Nature of conveyance:			10 96 200
☑ Assignment	☐ Merger		7/10
☐ Security Agreement	☐ Change of Name	City: KENT	State/Prov.: OH
☐ Other		Country: US	ZIP: 44240
Execution Date: September 2	24, 2001	Additional name(s) & address(es	) ⊠ Yes □ No
4. Application number(s) or pa	atent numbers(s):		
	ed together with a new application	, the execution date of the app	olication is:
Patent Application No.	Filing date	B. Patent No.(s)	Pr-
LIO 09/937, <del>201</del>	September 24, 2001		CECEIUE
	Additional numbers	☐ Yes 🏿 No	RECEIVED  MAY 1 7 2002  TC 1700
Name and address of party concerning document shou	to whom correspondence ld be mailed:	6. Total number of applicati	
Name: Raymond H. J. Pow	vell, Jr.	7. Total fee (37 CFR 3.41):.	\$ 40.00
Registration No. 34,231		<ul> <li>Enclosed - Any exce credited or debited to</li> </ul>	ss or insufficiency should be deposit account
Address: WESTERLUND	· POWELL, P.C.	i	arged to deposit account
100 Daingerfield Rd.			
Suite 100		8. Deposit account number	
City: Alexandria	State/Prov.: VA		is nego if paying by deposit account)
	ZIP: <u>22314</u>		is page if paying by deposit account)
	DO NO	TUSE THIS SPACE	
Statement and signature.	the state of the second information	nation is true and correct and	any attached copy is a true copy
To the best of my knowled	dge and belief, the loregoling information	L h	04/30/2002
of the original document.	(A()) (		04/30/2002 Date
Raymond H. J. Powell, Jr Name of Person	and the second s	Signature	6 Date
Name of Ferson	Total number of pages including	ng cover sheet, attachments, and with required cover sheet information to: S. Trademarks, Box Assignments	
		& Trademarks, Box Assignments gton, D.C. 20231	PATENT

REEL: 012913 FRAME: 0254

Docket No.: KD-01-004US

FORM PTO-15.5 (Modified) (Rev. 03-01)	RECORDATION FORM COVER SHEET		ET U.S.	U.S. DEPARTMENT OF COMMERCE	
OMB No. 0651-0027 (exp.5/31/2002) P08A/REV03	<b>PATENTS ONLY</b>			Patent and Trademark Office	
Tab settings → → → ▼	▼	▼	▼	▼	<b>▼</b>
To the Honorable Commissioner of Pate	ents and Trademarks: I	Please record the	attached original d	ocuments or co	py thereof.
1. Name of conveying party/iesp: E C DOANE, Joseph W. O KHAN, Asad A. SEED, Alexander J. APR 3 0 2002			TOISPLAYS, INC. Portage Blvd.	RECEI	VED
Additional names(s) of conveying party(ice)	Yes No	***************************************		MAY 1 P	VED
3. Nature of conveyance:		M		1 7 21	102
☑ Assignment	Merger		11 1 1000 1000 1000 100 10	TC 170	0
☐ Security Agreement ☐	Change of Name	City: KENT		State/Prov.:	ОН
☐ Other	:	Country: US		ZIP: 44240	
Execution Date: September 24, 2001		Additional name(s)	& address(es)	⊠ Yes □	] No
4. Application number(s) or patent number	rs(s):				
If this document is being filed together	with a new application,	the execution date	e of the application	is:	
Patent Application No. Filing d	ate	B. Paten	t No.(s)	RECE	<b>7</b> /1 .
310 09/937, <del>201</del> Septemb	per 24, 2001			RECE MAY 06 TC 1/0	2002 100
	Additional numbers	☐ Yes 🗵 N			
Name and address of party to whom co- concerning document should be mailed	orrespondence I:	6. Total number	of applications and	patents involve	d: 1
Name: Raymond H. J. Powell, Jr.		7. Total fee (37 (	CFR 3.41):	\$ 40.00	
Registration No. 34,231		<ul> <li>Enclosed - Any excess or insufficiency should be credited or debited to deposit account</li> </ul>			
Address: WESTERLUND · POWELL,	P.C.		d to be charged to		
100 Daingerfield Rd.					
Suite 100		8. Deposit accou	ant number:		
City: Alexandria Sta	te/Prov.: VA	16-2372			
Country: US ZIP	22314	(Attach duplica	ite copy of this page if p	aying by deposit at	ccount)
		JSE THIS SPACE			
9. Statement and signature.  To the best of my knowledge and belied of the original document.  **To the best of my knowledge and belied the original document.**  **To the original document.**  **To the original document.**	ef, the foregoing informs $\bigcap_{\mathcal{A}} \left( \uparrow \right) \int$	ation is true and co	_ /	ched copy is a t 04/30/2002	true copy
Raymond H. J. Powell, Jr.  Name of Person Signing		Signature	6	Date	
Name of Person Signing	I number of pages including	cover sheet, attachme	ents, and		

	(Multiple inventors; multiple assignees)	
(Multiple inventors; 1	nuitiple assignees)	KD-01-004US
this is an Assignment of the following rights, to	itle and interest: (check all that apply):	
United States of America rights, t	itle and interest in the invention	
Foreign rights, title and interest i		
☑ Inited States Patent Application	Serial No. 09/937,210	
R 3 0 2002 Date of Execution: 09/24/20		
Dinited States Provisional Patent.	Application Serial No. 60/210,485 (June 9, 2000)	····
TRADE United States Patent No(s).		
	cation Serial No. PCT/US01/14842 (June 8, 2001)	
Other (specify)		
itle of the Invention		
CHIRAL ADDITIVES FOR CHOLESTERIC DIS	DI AVC	
CHIRAL ADDITIVES FOR CHOLESTERIC DIS	PLAYS	
ventors (assignors)		
Name	Address	
Joseph W. Doane	340 Oakwood Drive, Kent OH 44240 USA	
Asad A. Khan	901 Admore Drive, Kent OH 44240 USA	
Alexander J. Seed	4071 Baird Road, Stow OH 44224 USA	
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[Page 1 of 4 ]

PATENT REEL: 012913 FRAME: 0256

AS04A/REV01

Assignment of Rights, Title and Interest in Invention (Multiple inventors; multiple assignees)		Docket No. KD-01-004US	
Assignees			
Name	Address		
KENT DISPLAYS, INC.	343 Portage Blvd. Kant OH 44240		
Name	Address		
KENT STATE UNIVERSITY	P.O. Box 5190 Kent, OH 44242		
Name	Address		

Page 2 of 4

## Assignment of Rights, Title and Interest in Invention (Multiple inventors; multiple assignees)

Docket No. KD-01-004US

Whereas, we, the above-identified Inventors, have invented certain new and useful improvements in the Invention identified above and described in the above-identified patent application(s) and/or patent(s) (hereinafter referred to as "Invention");

And, whereas we desire to assign our above-identified rights, title and interest in the Invention to the above-identified Assignees;

Now, this indenture witnesseth, that for good and valuable consideration, the receipt whereof is hereby acknowledged;

We hereby assign, sell and transfer our above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said Invention based upon said application(s) as identified above, said patents, domestic and forein as identified above, and in and to any and all reissues and reexaminations thereof, and in and to any and all priority rights, Convention rights, and other benefits accruing or to accrue to us with respect to the filing of said application(s) for patents or securing of patents in the United States and countries foreign thereto, unto said Assignees, who will hold said rights, title and interest in equal shares;

And we hereby authorize and request the Commissioner of Patents and Trademarks to issue any United States Letters Patent which may issue for said Invention to said Assignees, as co-assignees of the whole right, title and interest thereto;

And we further agree to sign and execute all necessary and lawful future documents, including applications for foreign patents, for filing divisions, continuations and continuations-in-part of said application for patent, and/or, for obtaining any reissue or reissues of any Letters Patent which may be granted for our aforesaid Invention, as the Assignees or their Designee(s) may from time to time require and prepare at their own expense.

Inventors' Signatures (if Notarization is desired, do not sign here and proceed to next page)

Name	Signature/Date
Joseph W. Doane	
Asad A. Khan	
Alexander J. Seed	

[Page 3 of 4 ]

## Assignment of Rights, Title and Interest in Invention (Multiple inventors; multiple assignees)

Docket No. KD-01-004US

Notarization  (Although notarization is not necessary, it will be considered prima facie evidence of execution pursuant to 35 U.S.C. 261.)
Executed this 11 day of October, in the year 2001  Rent Display, Inc.
State of MIO
County of Pertage  Before me personally appeared Joseph W. Doane
who acknowledged the foregoing instrument to be a free act and deed and also represented that he or she is authorized execute the same this SUSAN M. HENSLEY , in the year $200\%$
MY COMMISSION EXPIRES AUG. 2, 2004  NOTARY PUBLIC, STATE OF OHIO  MY COMMISSION EXPIRES AUG. 2, 2004  (Notary Public)  (Notary Public)
Executed this    day of October, in the year 200
Kent Displays, Inc.  Ase of A- Ule .  (Signature of Inventor)
State of Ohro
country of Portage
Before me personally appeared Asad A. Khan who acknowledged the foregoing instrument to be a free act and deed and also represented that he or she is authorized execute the same this // day of OC (ODV), in the year 200   SUSAN M. HENSLEY
NOTARY PUBLIC, STATE OF OHIO MY COMMISSION EXPIRES AUG. 2, 2004  MY COMMISSION EXPIRES AUG. 2, 2004  (Notary Public)
Executed this 1/th day of October, in the year 2001  at Klut,  M 0 - 0
State of Ohio  Hexander J Seed.  (Signature of Inventor)
County of Partage
Before me personally appeared Alexander J. Seed who acknowledged the foregoing instrument to be a free act and deed and also represented that he or she is authorized execute the same this 1144 day of October, in the year 200/
ELAHNE M. LANDRY. Notary Public.  97 N T 0 Z 6 Z  State Wide Jurisdiction. Ohio  (Notary Public)  (Notary Public)

[Page 4 of 4 ]

wly Commission Expires Sopt. L. 200 2

**RECORDED: 05/06/2002**