FORM PTO-1619A Expires 06/30/99 OMB 0651-0027 06-14-2001



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U.S. Department of Commerce Patent and Trademark Office PATENT

19/874635 PT Designation 19/87464 PT Designation 19/8

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X New (10/05/0)	X Assignment Security Agreement	
Resubmission (Non-Recordation) Document ID#	License Change of Name	
Correction of PTO Error Reel # Frame #	Merger Other	
U.S. Government Corrective Document (For Use ONLY by U.S. Government Agencies)		
Reel # Frame #	Departmental File Secret File	
Conveying Party(ies) Mark if additional names of conveying parties attached Execution Date Month Day Year		
Name (line 1) Odhner, Jefferson E.	10271999	
Name (line 2)	Execution Date	
Second Party Cullen, Donald L.	Month Day Year 10261999	
Name (line 2)		
Receiving Party Mark if additional names of receiving parties attached		
Name (line 1) Luckoff Display Corporation	If document to be recorded is an assignment and the	
Name (line 2)	receiving party is not domiciled in the United States, an appointment	
Address (line 1) 65 East State Street	of a domestic representative is attached. (Designation must be a	
Address (line 2) Suite 1000	separate document from Assignment.)	
Address (line 3) Columbus	OH 43215 State/Country Zip Code	
Domestic Representative Name and Address Enter for the first Receiving Party only.		
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FORM PTO-1619B Expires 06/30/99 OMB 0651-0027	Page 2	U.S. Department of Commerce Patent and Trademark Office PATENT	
Correspondent Name and Address	Area Code and Telephone Number (614)	436-0600	
Name Jerry K. Mueller. Jr.			
Address (line 1) Mueller and Smith. LPA			
Address (line 2) 7700 Rivers Edge Drive			
Address (line 3) Columbus. Ohio 43235			
Address (line 4)			
Pages Enter the total number of p including any attachments	ages of the attached conveyance document	# 2	
Application Number(s) or Patent Nu	mber(s) Mark if addition	nal numbers attached	
Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).			
Patent Application Number(s)	Patent Num	nber(s)	
If this document is being filed together with a <u>new</u> Patent Application, enter the date the patent application was signed by the first named executing inventor. 10271999			
Patent Cooperation Treaty (PCT)		7	
Enter PCT application number	PCT PCT	PCT	
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Number of Properties		4	
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Fee Amount Fee Amoun	t for Properties Listed (37 CFR 3.41): \$	13-4830	
Method of Payment: End Deposit Account	closed X Deposit Account		
(Enter for payment by deposit account or if additional fees can be charged to the account.) Deposit Account Number: # 13-4830			
	Authorization to charge additional fees: Yes	X No	
Statement and Signature			
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.			
Jerry K. Mueller, Jr.	VAN Mulat.	October 29, 1999	
Name of Person Signing	Signature	Date	
L			

PATENT
REEL: 011881 FRAME: 0164

JOINT ASSIGNMENT

Whereas, we, Jefferson E. Odhner, of Amherst, New Hampshire; and Donald L. Cullen, of Columbus, Ohio, have invented certain new and useful improvements in

ACTIVE AND PASSIVE HOLOGRAPHIC OPTICAL BASED CURVED SURFACE ELEMENTS

for which we are about to make application for Letters Patent of the United States; and

Whereas, Luckoff Display Corporation, a corporation of Ohio, having an office at 65 East State Street, Suite 1000, Columbus, Ohio 43215, herein called "Assignee", is desirous of acquiring our entire right, title, and interest

in said invention and application therefor, and in any patent or patents to be obtained therefor; NOW, THEREFORE, To All Whom It May Concern, be it known that, for and in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign, and transfer unto said Assignee, our entire right, title and interest in and to the invention shown, described, or claimed therein, and the full and exclusive right and title to said application executed by us on the ______ day of ______, 1999, and the _____ day of ______, 1999, respectively, preparatory to obtaining Letters Patent of the United States therefor; and in and to any extensions, reissues, divisions, or renewals thereof; and we do hereby authorize and request the Commissioner of Patents and Trademarks or other proper Officer to issue such Letters Patent to the Assignee of our entire right, title and interest in and to the same for the sole use and behoof of the said Assignee, and its successors or assigns. And we further covenant and agree that we will, at the request and expense of the said Assignee, execute such further assurance of title as may be necessary or proper to fully convey the interest herein sought to be conveyed; that we will, at the request and expense of the said Assignee, execute such application papers as may be desired by the said Assignee for the filing of any division or renewal of the application herein conveyed, or for the reissues or extension of any Letters Patent that may be granted upon said application, and will execute such Supplemental Oaths and Preliminary Statements, or other papers as desired by the said Assignee. And we further assign unto the said Assignee our whole right, title, and interest to the invention disclosed in the application throughout all countries foreign to the United States, and do hereby authorize the said Assignee to apply for patents therefor in its own name in countries where such procedure is proper and to claim the benefit of the International Convention and we do agree to execute applications for the said invention in the several countries where it is necessary that the same be executed by the inventor, and to execute assignments of such applications and the patents to be obtained therefor to the said Assignee, as well as all other necessary papers. IN TESTIMONY WHEREOF, I have hereunto set my hand at North Reading, this 27th day of

STATE OF NEW HAMPSHIRE Massachusetts)) SS.

Personally appeared before me this day the above-named Jefferson E. Odhner, to me personally known, who acknowledged that he signed the foregoing instrument for the uses and purposes therein mentioned, and that the same is his free act and deed.

In testimony whereof, I have hereunto set my hand and affixed my seal this 27th day of October 1999.

Notary Public My Commission expres: OC+ -9, 2003

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LUC 2-024-3

IN TESTIMONY WHEREOF, I have hereunto set my hand at lolumbur, OH, this idea of the control of the control

Assignment from Odhner and Cullen to Luckoff Display Corporation

STATE OF OHIO

) SS.

COUNTY OF FRANKLIN)

)

RECORDED: 06/05/2001

Personally appeared before me this day the above-named Donald L. Cullen, to me personally known, who acknowledged that he signed the foregoing instrument for the uses and purposes therein mentioned, and that the same is his free act and deed.

In testimony whereof, I have hereunto set my hand and affixed my seal this 26 day of 0000, 1999.

Notary Public

DIANE E. BURKE, ATTORNEY AT LAW NOTARY PUBLIC, STATE OF OHIO My commission has no expiration date.

Section 147.03 R.C.

PATENT REEL: 011881 FRAME: 0166