

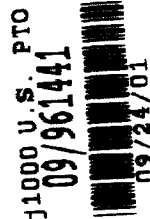
10-02-2001



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9/24/01  
961441



PATENT  
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
ASSIGNMENT BRANCH

Watts, Hoffmann, Fisher & Heinke Co., L.P.A.  
P.O. Box 99839  
Cleveland, Ohio 44199-0839  
Telephone: (216) 241-6700  
Docket No.: 15-875

09/24/01

Assistant Commissioner for Patents  
**BOX PATENT APPLICATION**  
Washington, D. C. 20231

Dear Sir:

Please record the attached original document(s) or copy thereof as follows:

*Conveying Party:* Asad A. Khan, Michael E. Stefanov and Clive Catchpole

*Receiving Party:* Kent Displays Incorporated  
*Address:* 343 Portage Boulevard  
Kent, Ohio 44240

*Nature of Conveyance:* Assignment

09/961441

*Date of Execution:* September 6, 2001; September 19, 2001 and September 10, 2001, respectively

Please record against:

*Patent No(s):*

*Application No(s):* not yet assigned

*No. of Patent(s):* *No. of Application(s):* 1

*If this document is being filed together with a new application, the execution date of the application is: 1,532.00. (Payment for the recordal fees has been included in the check in the amount of \$ accompanying the application.)*

*(or)*

A check in the amount of \$ for the recordal fees is enclosed.

**XX** Please charge any additional fees, or credit any overpayment, to Deposit Account 23-0630.

Total number of pages including cover sheet, attachments and document: **56**

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PATENT  
REEL: 012203 FRAME: 0359

To my best knowledge and belief, the foregoing information is true and correct. Please correspond with Watts, Hoffmann, Fisher & Heinke at the above address.

Respectfully submitted,

September 24, 2001  
Date

Ken Smith  
Kenneth J. Smith  
Reg. No.:45,115

## ASSIGNMENT

IN CONSIDERATION of One Dollar and other good and valuable consideration, receipt of which is hereby acknowledged, we, Asad A. Khan; Michael E. Stefanov, and Clive Catchpole, respectively citizens of Pakistan, United States and United States, and residing at 901 Admore Drive, Kent, Ohio 44240; 233 Devon Farms Road, Stormville, New York 12582 and 31050 Stafford Drive, Birmingham, Michigan 48025, do hereby sell, transfer, set over and assign unto Kent Displays Incorporated, a Delaware corporation having its principal place of business at 343 Portage Boulevard, Kent, Ohio 44240, respectively, its successors, assigns, nominees, or other legal representatives, the entire right, title and interest in and to the invention entitled BACK LIT CHOLESTERIC LIQUID CRYSTAL DISPLAY, invented by us and the application for United States patent therefor, executed concurrently herewith, and all original and reissued patents granted therefor, and all divisions and continuations thereof, including the subjects-matter of any and all claims which may be obtained in every such patent, and the right to apply for and obtain patents in countries foreign to the United States, and in and to any Letters Patent which may be granted thereon in such foreign countries, and authorize and request the Commissioner of Patents of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue the said Letters Patent to the said Kent Displays Incorporated, its successors, assigns, nominees or other legal representatives, as assignee and owner of the said entire interest, and covenant that we have full right to convey said entire interest herein assigned and that we have not executed and will not execute any agreement in conflict herewith, and agree that we will communicate to said Kent Displays Incorporated, its successors, assigns, nominees or other legal representatives, all facts known to us respecting said invention, whenever requested, and testify in any legal proceedings, sign all lawful papers, execute and deliver all divisional, continuing and reissue applications, make all rightful oaths and do all lawful acts requisite for the application for such divisional, continuing or reissue applications, or the procuring thereof, and that if and when said Kent Displays Incorporated, its successors, assigns, nominees or other legal representatives desire to file a disclaimer relating thereto, we will upon request, sign and deliver all lawful papers requisite for the filing of such disclaimer, and we further covenant and agree that we will, at any time upon request, do everything legally possible to aid said Kent Displays Incorporated, its successors, assigns, nominees or other legal representatives, either in its or our own name, to apply for, obtain and enforce proper patent protection in all countries, including priority rights granted to patents in foreign countries according to all the laws and treaties in force, all without further consideration but at the expense of said Kent Displays Incorporated, its successors, assigns, nominees or other legal representatives.




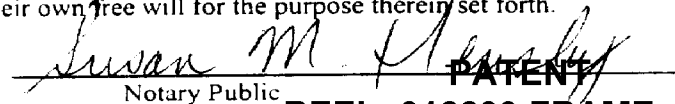
Asad A. Khan

\_\_\_\_\_  
Michael E. Stefanov

\_\_\_\_\_  
Clive Catchpole

State of Ohio                    )  
  ) SS  
County of Portage            )

This 6 day of September, 2001, before me personally came the above-named Asad A. Khan,  who personally known as the individuals who executed the foregoing assignment, and who acknowledged to me that they executed the same of their own free will for the purpose therein set forth.

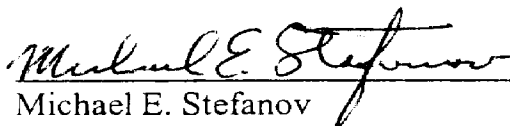
  
Notary Public

**PATENT**  
REEL: 012203 FRAME: 0361

## ASSIGNMENT

IN CONSIDERATION of One Dollar and other good and valuable consideration, receipt of which is hereby acknowledged, we, Asad A. Khan; Michael E. Stefanov. and Clive Catchpole, respectively citizens of Pakistan, United States and United States, and residing at 901 Admore Drive, Kent, Ohio 44240; 233 Devon Farms Road, Stormville, New York 12582 and 31050 Stafford Drive, Birmingham, Michigan 48025, do hereby sell, transfer, set over and assign unto Kent Displays Incorporated, a Delaware corporation having its principal place of business at 343 Portage Boulevard, Kent, Ohio 44240, respectively, its successors, assigns, nominees, or other legal representatives, the entire right, title and interest in and to the invention entitled BACK LIT CHOLESTERIC LIQUID CRYSTAL DISPLAY, invented by us and the application for United States patent therefor, executed concurrently herewith, and all original and reissued patents granted therefor, and all divisions and continuations thereof, including the subjects-matter of any and all claims which may be obtained in every such patent, and the right to apply for and obtain patents in countries foreign to the United States, and in and to any Letters Patent which may be granted thereon in such foreign countries, and authorize and request the Commissioner of Patents of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue the said Letters Patent to the said Kent Displays Incorporated, its successors, assigns, nominees or other legal representatives, as assignee and owner of the said entire interest, and covenant that we have full right to convey said entire interest herein assigned and that we have not executed and will not execute any agreement in conflict herewith, and agree that we will communicate to said Kent Displays Incorporated, its successors, assigns, nominees or other legal representatives, all facts known to us respecting said invention, whenever requested, and testify in any legal proceedings, sign all lawful papers, execute and deliver all divisional, continuing and reissue applications, make all rightful oaths and do all lawful acts requisite for the application for such divisional, continuing or reissue applications, or the procuring thereof, and that if and when said Kent Displays Incorporated, its successors, assigns, nominees or other legal representatives desire to file a disclaimer relating thereto, we will upon request, sign and deliver all lawful papers requisite for the filing of such disclaimer, and we further covenant and agree that we will, at any time upon request, do everything legally possible to aid said Kent Displays Incorporated, its successors, assigns, nominees or other legal representatives, either in its or our own name, to apply for, obtain and enforce proper patent protection in all countries, including priority rights granted to patents in foreign countries according to all the laws and treaties in force, all without further consideration but at the expense of said Kent Displays Incorporated, its successors, assigns, nominees or other legal representatives.

\_\_\_\_\_  
Asad A. Khan

  
\_\_\_\_\_  
Michael E. Stefanov

\_\_\_\_\_  
Clive Catchpole

State of Ohio                    )  
                                      ) SS  
County of Portage            )

This \_\_\_\_ day of \_\_\_\_\_, 2001, before me personally came the above-named Asad A. Khan, Michael E. Stefanov and Clive Catchpole to me personally known as the individuals who executed the foregoing assignment, and who acknowledged to me that they executed the same of their own free will for the purpose therein set forth.

# ASSIGNMENT

IN CONSIDERATION of One Dollar and other good and valuable consideration, receipt of which is hereby acknowledged, we, Asad A. Khan; Michael E. Stefanov, and Clive Catchpole, respectively citizens of Pakistan, United States and United States, and residing at 901 Admore Drive, Kent, Ohio 44240; 233 Devon Farms Road, Stormville, New York 12582 and 31050 Stafford Drive, Birmingham, Michigan 48025, do hereby sell, transfer, set over and assign unto Kent Displays Incorporated, a Delaware corporation having its principal place of business at 343 Portage Boulevard, Kent, Ohio 44240, respectively, its successors, assigns, nominees, or other legal representatives, the entire right, title and interest in and to the invention entitled BACK LIT CHOLESTERIC LIQUID CRYSTAL DISPLAY, invented by us and the application for United States patent therefor, executed concurrently herewith, and all original and reissued patents granted therefor, and all divisions and continuations thereof, including the subjects-matter of any and all claims which may be obtained in every such patent, and the right to apply for and obtain patents in countries foreign to the United States, and in and to any Letters Patent which may be granted thereon in such foreign countries, and authorize and request the Commissioner of Patents of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue the said Letters Patent to the said Kent Displays Incorporated, its successors, assigns, nominees or other legal representatives, as assignee and owner of the said entire interest, and covenant that we have full right to convey said entire interest herein assigned and that we have not executed and will not execute any agreement in conflict herewith, and agree that we will communicate to said Kent Displays Incorporated, its successors, assigns, nominees or other legal representatives, all facts known to us respecting said invention, whenever requested, and testify in any legal proceedings, sign all lawful papers, execute and deliver all divisional, continuing and reissue applications, make all rightful oaths and do all lawful acts requisite for the application for such divisional, continuing or reissue applications, or the procuring thereof, and that if and when said Kent Displays Incorporated, its successors, assigns, nominees or other legal representatives desire to file a disclaimer relating thereto, we will upon request, sign and deliver all lawful papers requisite for the filing of such disclaimer, and we further covenant and agree that we will, at any time upon request, do everything legally possible to aid said Kent Displays Incorporated, its successors, assigns, nominees or other legal representatives, either in its or our own name, to apply for, obtain and enforce proper patent protection in all countries, including priority rights granted to patents in foreign countries according to all the laws and treaties in force, all without further consideration but at the expense of said Kent Displays Incorporated, its successors, assigns, nominees or other legal representatives.

Asad A. Khan

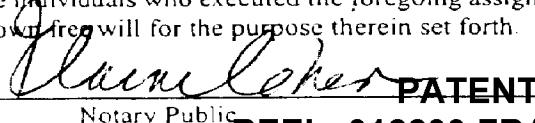
Michael E. Stefanov

  
Clive Catchpole

Michigan )  
State of ~~Ohio~~ )  
OAKLAND ) SS  
County of ~~Portage~~ )

ELAINE COHEN  
NOTARY PUBLIC - MICHIGAN  
OAKLAND COUNTY  
MY COMMISSION EXPIRES MAR. 15, 2005

This 10 day of September, 2001, before me personally came the above-named Asad A. Khan, Michael E. Stefanov and Clive Catchpole to me personally known as the individuals who executed the foregoing assignment, and who acknowledged to me that they executed the same of their own free will for the purpose therein set forth.

  
Notary Public

RECORDED: 09/24/2001

PATENT  
REEL: 012203 FRAME: 0363