

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5603545

|                                         |                                                                                                                    |                       |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------|
| <b>SUBMISSION TYPE:</b>                 | NEW ASSIGNMENT                                                                                                     |                       |
| <b>NATURE OF CONVEYANCE:</b>            | ASSIGNMENT                                                                                                         |                       |
| <b>CONVEYING PARTY DATA</b>             |                                                                                                                    |                       |
| <b>Name</b>                             |                                                                                                                    | <b>Execution Date</b> |
| SHENZHEN TECHVISUM TECHNOLOGIES LIMITED |                                                                                                                    | 06/21/2019            |
| <b>RECEIVING PARTY DATA</b>             |                                                                                                                    |                       |
| <b>Name:</b>                            | BEIHAI HUIKE PHOTOELECTRIC TECHNOLOGY CO., LTD.                                                                    |                       |
| <b>Street Address:</b>                  | NO. 336, EAST EXTENSION LINE, SECOND PHASE BLOCK A-430, HUIKE FASHION PLAZA, BEIHAI AVENUE, BEIHAI INDUSTRIAL PARK |                       |
| <b>City:</b>                            | GUANGXI                                                                                                            |                       |
| <b>State/Country:</b>                   | CHINA                                                                                                              |                       |
| <b>PROPERTY NUMBERS Total: 33</b>       |                                                                                                                    |                       |
| <b>Property Type</b>                    | <b>Number</b>                                                                                                      |                       |
| Patent Number:                          | 8912813                                                                                                            |                       |
| Patent Number:                          | 9568791                                                                                                            |                       |
| Patent Number:                          | 9368085                                                                                                            |                       |
| Patent Number:                          | 9281323                                                                                                            |                       |
| Patent Number:                          | 7518589                                                                                                            |                       |
| Patent Number:                          | 7098970                                                                                                            |                       |
| Patent Number:                          | 7532285                                                                                                            |                       |
| Patent Number:                          | 8362975                                                                                                            |                       |
| Patent Number:                          | 8681075                                                                                                            |                       |
| Patent Number:                          | 8125606                                                                                                            |                       |
| Patent Number:                          | 8724071                                                                                                            |                       |
| Patent Number:                          | 8878075                                                                                                            |                       |
| Patent Number:                          | 8762089                                                                                                            |                       |
| Patent Number:                          | 8767138                                                                                                            |                       |
| Patent Number:                          | 6848191                                                                                                            |                       |
| Patent Number:                          | 6674507                                                                                                            |                       |
| Patent Number:                          | 7034913                                                                                                            |                       |
| Patent Number:                          | 7852425                                                                                                            |                       |
| Patent Number:                          | 6917354                                                                                                            |                       |
| Patent Number:                          | 6977637                                                                                                            |                       |
| Patent Number:                          | 7071929                                                                                                            |                       |

PATENT

| Property Type  | Number  |
|----------------|---------|
| Patent Number: | 7221415 |
| Patent Number: | 7182500 |
| Patent Number: | 7639338 |
| Patent Number: | 7354173 |
| Patent Number: | 7804567 |
| Patent Number: | 7646458 |
| Patent Number: | 8446548 |
| Patent Number: | 8179357 |
| Patent Number: | 8773344 |
| Patent Number: | 9097942 |
| Patent Number: | 9244298 |
| Patent Number: | 8708544 |

#### CORRESPONDENCE DATA

**Fax Number:** (312)427-6663

*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.*

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|                                |                     |
|--------------------------------|---------------------|
| <b>ATTORNEY DOCKET NUMBER:</b> | CS-2819-4 RJS/DS    |
| <b>NAME OF SUBMITTER:</b>      | RICHARD J. STREIT   |
| <b>SIGNATURE:</b>              | /RICHARD J. STREIT/ |
| <b>DATE SIGNED:</b>            | 07/03/2019          |

#### Total Attachments: 3

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UNITED STATES OF AMERICA  
ASSIGNMENT

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In consideration of the payment of ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

**ASSIGNOR:**

Shenzhen Techvisum Technologies Limited.  
A01, 5F, Mindary Deputy Building, Technology South Road 12, Shenzhen, Guangdong,  
China.

hereby sells, assigns and transfers to

**ASSIGNEE:**

BEIHAI HUIKE PHOTOELECTRIC TECHNOLOGY CO.,LTD,

No.336, East Extension Line, Second Phase Block A-430,Huiké Fashion Plaza, Beihai  
Avenue,Beihai Industrial Park, Guangxi, China.

and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and its territorial possessions in and to, any and all improvements which are disclosed in the Applications/Patents identified in Schedule A attached herewith and, in and to all Letters Patents to be obtained for said inventions or any continuation, division, renewal, substitute, reissue or re-examination thereof.

ASSIGNOR hereby covenants that no assignment, sale agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said inventions and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said applications, said inventions and said Letters Patents and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, we have set our hand and seal

| Application No. | Application date | Issue No.   | Current owner                            | Title of Invention                                                    |
|-----------------|------------------|-------------|------------------------------------------|-----------------------------------------------------------------------|
| 13/325,991      | 2011/12/14       | US8912813B2 | Shenzhen Techvisum Technologies Limited. | TEST DEVICE FOR LIQUID CRYSTAL DISPLAY DEVICE AND TEST METHOD THEREOF |

|            |            |             |                                          |                                                                                                                                  |
|------------|------------|-------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 13/962,939 | 2013/8/8   | US9568791B2 | Shenzhen Techvisum Technologies Limited. | Liquid crystal display device                                                                                                    |
| 13/939,160 | 2013/7/10  | US9368085B2 | Shenzhen Techvisum Technologies Limited. | METHOD AND APPARATUS FOR DRIVING ACTIVE MATRIX DISPLAY PANEL, AND DISPLAY                                                        |
| 14/285,538 | 2014/5/22  | US9281323B2 | Shenzhen Techvisum Technologies Limited. | ARRAY SUBSTRATE, DISPLAY PANEL AND DISPLAY DEVICE                                                                                |
| 10/081238  | 2002/2/25  | US7098970   | Shenzhen Techvisum Technologies Limited. | Liquid crystal display device and its manufacturing method                                                                       |
| 11/071211  | 2005/3/4   | US7518580   | Shenzhen Techvisum Technologies Limited. | Liquid crystal display device and method for driving the same                                                                    |
| 11/227844  | 2005/9/15  | US7532285   | Shenzhen Techvisum Technologies Limited. | LCD device reducing asymmetry in the leakage light                                                                               |
| 12/388772  | 2009/2/19  | US8362975   | Shenzhen Techvisum Technologies Limited. | Display device, electronic appliance, optical member, display panel, controller, and control method for driving display panel    |
| 13/630543  | 2012/9/28  | US8681075   | Shenzhen Techvisum Technologies Limited. | DISPLAY DEVICE AND ELECTRONIC APPLIANCE                                                                                          |
| 12/200954  | 2008/8/29  | US8125605   | Shenzhen Techvisum Technologies Limited. | Display device with branched terminal electrode                                                                                  |
| 12/613031  | 2009/11/5  | US8724071   | Shenzhen Techvisum Technologies Limited. | LIQUID CRYSTAL DISPLAY DEVICE                                                                                                    |
| 13/472135  | 2012/5/15  | US8878075   | Shenzhen Techvisum Technologies Limited. | Connecting structure and a display device with said connecting structure                                                         |
| 12/437996  | 2009/5/8   | US8762089   | Shenzhen Techvisum Technologies Limited. | METHOD AND APPARATUS FOR TESTING A SUBSTRATE FOR DISPLAY DEVICE                                                                  |
| 12/575858  | 2008/8/20  | US8767138   | Shenzhen Techvisum Technologies Limited. | VACUUM SUCTION CONTROL MECHANISM APPARATUS, FILM BONDING APPARATUS, AND DISPLAY APPARATUS                                        |
| 10/124978  | 2002/4/18  | US6848191   | Shenzhen Techvisum Technologies Limited. | Apparatus and method for forming a combined substrate structure                                                                  |
| 10/156204  | 2002/5/29  | US6674507   | Shenzhen Techvisum Technologies Limited. | Method for manufacturing flat type display includes forming closed loop consisting of sealant with recess formed inside the loop |
| 10/804158  | 2004/3/19  | US7034913   | Shenzhen Techvisum Technologies Limited. | Liquid crystal display device having flexible substrates                                                                         |
| 11/908072  | 2007/9/27  | US7852425   | Shenzhen Techvisum Technologies Limited. | Liquid crystal panel module and liquid crystal display device using the same                                                     |
| 10/974756  | 2002/2/12  | US6917354   | Shenzhen Techvisum Technologies Limited. | Fluorescent lamp, fluorescent lamp unit, liquid crystal display device, and method of emitting light                             |
| 10/137439  | 2002/5/3   | US6977637   | Shenzhen Techvisum Technologies Limited. | Method of driving liquid crystal display                                                                                         |
| 10/377876  | 2003/3/4   | US7071929   | Shenzhen Techvisum Technologies Limited. | Method of driving liquid crystal display and liquid crystal display using the driving method                                     |
| 10/420689  | 2003/4/23  | US7221415   | Shenzhen Techvisum Technologies Limited. | Liquid crystal display apparatus                                                                                                 |
| 11/087590  | 2005/3/24  | US7182580   | Shenzhen Techvisum Technologies Limited. | Liquid crystal display module and back light for the same                                                                        |
| 11/124803  | 2005/5/9   | US7639338   | Shenzhen Techvisum Technologies Limited. | LCD device having external terminals                                                                                             |
| 11/240174  | 2005/9/30  | US7354173   | Shenzhen Techvisum Technologies Limited. | Lighting apparatus having a uniform luminance profile                                                                            |
| 11/280569  | 2005/11/16 | US7804567   | Shenzhen Techvisum Technologies Limited. | Normally-white twisted-nematic-mode LCD device                                                                                   |
| 11/582453  | 2006/10/18 | US7646458   | Shenzhen Techvisum Technologies Limited. | Liquid crystal display device and method of manufacturing the same                                                               |
| 11/798941  | 2007/5/17  | US8346548   | Shenzhen Techvisum Technologies Limited. | Light source device, display device, terminal device, and transparent/scattering state switching element                         |
| 11/987057  | 2007/11/27 | US8179357   | Shenzhen Techvisum Technologies Limited. | Semiconductor circuit, scanning circuit and display device using these circuits                                                  |
| 11/871175  | 2007/10/12 | US8773344   | Shenzhen Techvisum Technologies Limited. | DISPLAY DEVICE                                                                                                                   |
| 14/288950  | 2014/5/28  | US9297942   | Shenzhen Techvisum Technologies Limited. | Display device, and electronic device and ornamental product incorporating same                                                  |
| 12/705596  | 2010/2/13  | US9244298   | Shenzhen Techvisum Technologies Limited. | Liquid crystal display device                                                                                                    |

|           |           |           |                                          |                                            |
|-----------|-----------|-----------|------------------------------------------|--------------------------------------------|
| 13/057287 | 2012/1/24 | 058792544 | Shenzhen Techvisum Technologies Limited. | LIGHT SOURCE UNIT AND DEVICE USING<br>SAME |
|-----------|-----------|-----------|------------------------------------------|--------------------------------------------|

Shenzhen Techvisum  
Technologies Limited.

2019.06.21

Date



Name: Wang Huotao

Title: CEO

0099871 (U.S. rights)