

12-15-2006



Key's Docket No. 1007198-000701

To the Director of the U.S. Patent and Trademark

103349727

or the new address(es) below.

**OPTICAL DISPLACEMENT SENSOR AND DISTANCE MEASURING APPARATUS**

1. **Name of conveying party(ies):**  
Yeung CHOW

2. **Name and address of receiving party(ies):**  
Hong Kong Applied Science and Technology Research Institute Co. Ltd.  
5th Floor, Photonics Centre  
2 Science Park East Avenue  
Hong Kong Science Park  
Pak Shek Kok, New Territories  
Hong Kong SAR, China

3. **Nature of Conveyance/Execution Date(s):**  
Execution Date(s): November 30, 2006

- Assignment
- Security Agreement
- Joint Research Agreement
- Government Interest Agreement
- Other:
- Executive Order 9424 Confirmatory License
- Merger
- Change of Name

4. **Application or patent number(s):**  
A. Patent Application No.(s) B. Patent No.(s)

This document is being filed together with a new application.

5. **Name and address to whom correspondence concerning document should be mailed:**

Name: James A. LaBarre  
Address: **Buchanan Ingersoll & Rooney PC**  
**Customer Number 2 1 8 3 9**  
**P.O. Box 1404**  
**Alexandria, Virginia 22313-1404**

6. **Total number of applications and patents involved:** 1

7. **Total fee (37 CFR 1.21(h) & 3.41) \$ 40**

- Authorized to be charged by credit card. PTO Form 2038 attached.
- Authorized to be charged to deposit account 02-4800
- Enclosed.
- None required (gov't interest not affecting title)

8. **Signature:** James A. LaBarre #51522 28632 December 12, 2006  
Signature Reg. No. Date

James A. LaBarre Total number of pages including cover sheet, attachments, and documents: 3  
Name of Person Signing

112955 U.S. PTO  
11/637008  
121206

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05 FC:8021

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

**PATENT**  
**REEL: 018694 FRAME: 0190**

Assignment by Inventor

THIS ASSIGNMENT, made by CHOW, Yeung Ming, residing at Flat F, 18/F, Bldg 7, Serenity Park, Tai Po, New Territories, Hong Kong SAR, China ((hereinafter referred to as "the Assignor")), respectively; witnesseth:

WHEREAS, Assignor has invented certain new and useful improvements in "Optical Displacement Sensor and Distance Measuring Apparatus", set forth in a Patent application for Letters Patent of the United States, filed herewith; and

WHEREAS, Hong Kong Applied Science and Technology Research Institute Co. Ltd., a Limited Liability Company organized under and pursuant to the laws of Hong Kong, China having its principal place of business at 5/F, Photonics Centre, 2 Science Park East Avenue, Hong Kong Science Park, Pak Shek Kok, New Territories, Hong Kong SAR, China (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, Assignor has sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignor, had this sale and assignment not been made.

AND for the same consideration, Assignor hereby represents and warrants to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignor is the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignor hereby covenants and agrees to and with Assignee, its successors, legal representatives and assigns, that Assignor will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND the Assignor hereby authorizes and requests the attorneys of Buchanan Ingersoll & Rooney PC to insert in the spaces provided above the title of the invention, filing date, application number, and attorney's docket number of said application when known.

AND Assignor hereby requests the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignor acknowledges an obligation of assignment of this invention to Assignee at the time the invention was made.

Date: 30 November 2006

  
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CHOW, Yeung Ming