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Tab settings ⇄⇄⇄

10-24-03



OUR FILE TRW(TE)6489

To the Honorable Commissioner of Patents &

original documents or copy thereof.

1. Name of conveying party(ies):

Yun Luo  
Jon K. Wallace  
Robert Dziadula

Russell J. Lynch  
Farid Khairallah

Additional name(s) of conveying party(ies) attached ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: September 30, 2003

2. Name and address of receiving party(ies)

Name: TRW Automotive U.S. LLC

Internal Address: \_\_\_\_\_

Street Address: 12025 Tech Center Drive

City: Livonia State: MI Zip: 48150

Additional name(s) and address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

10692949

If this document is being filed together with a new application, the execution date of the application is September 30, 2003

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Barry L. Tummino

Internal Address: Tarolli, Sundheim, Covell,

Tummino & Szabo L L P

1111 Leader Building

Street Address: 526 Superior Avenue

City: Cleveland State: Ohio Zip: 44114-1400

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$40.00

- ☒ Enclosed  
☐ Authorized to be charged to deposit account.

8. Deposit Account No.

20-0090

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE SPACE

9. 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

Barry L. Tummino

Name of Person Signing  
Reg. No.

Signature

October 24, 2003

Date

Total number of pages including cover sheet, attachments, and document: 4

Mail Documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington D.C. 20231

10/29/2003 HMARZ11 00000047 10692949

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40.00 DP

## ASSIGNMENT

WHEREAS, we, Yun Luo, Jon K. Wallace, Robert Dziadula, Russell J. Lynch and Farid Khairallah, of Livonia, County of Wayne, and State of Michigan; of Redford, County of Wayne, and State of Michigan; of Farmington Hills, County of Oakland, and State of Michigan; of West Bloomfield, County of Oakland, and State of Michigan; and of Farmington Hills, County of Oakland, and State of Michigan respectively, have made new and useful improvements in **METHOD AND APPARATUS FOR SELF-DIAGNOSTICS OF A VISION SYSTEM**;

WHEREAS, TRW Automotive U.S. LLC, a limited liability company duly organized and existing under the laws of the State of Delaware, having a place of business at Livonia, County of Wayne, State of Michigan, is desirous of acquiring the entire right, title and interest in and to the said improvements and all patents therefor to be obtained in the United States of America and countries foreign to the United States;

NOW THEREFORE, BE IT KNOWN that for valuable considerations to us paid, the receipt whereof is hereby acknowledged, we, the said Yun Luo, Jon K. Wallace, Robert Dziadula, Russell J. Lynch and Farid Khairallah do hereby assign, sell and set over unto the said TRW Automotive U.S. LLC its successors or assigns, the entire right, title and interest in and to the said improvements and any and all inventions pertaining thereto, the application for United States patent executed by us respectively on the 30th day of September 2003, 30th day of September 2003, 30th day of September 2003, 30th day of SEPTEMBER 2003, and the 30th day of September 2003, all patents therefor in the United States of America and elsewhere, and the right to apply for patents therefor in all countries foreign to the United States and to claim for such applications the priority of United States applications, and we hereby 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, to issue such patents to the said TRW Automotive U.S. LLC its successors or assigns; and we further agree to execute such other applications and other instruments and do all other acts as may be deemed necessary by the said TRW Automotive U.S. LLC its successors or assigns in order to fully secure, protect and preserve its rights to the said improvements and to obtain patents therefor in the United States of America and all countries foreign to the United States, all without further consideration but at the expense of the said TRW Automotive U.S. LLC its successors or assigns.

Signed at Farmington Hills  
County of Oakland and State of Michigan  
This 30th day of September, 2003.

Yun Luo  
Yun Luo

STATE OF Michigan )  
COUNTY OF Oakland )

On this 30th day of September, 2003.  
Personally appeared before me Yun Luo to me known to be the person named in and who executed the above instrument, and acknowledged to me that he executed the same for the uses and the purposes therein mentioned.

DIANNA LANE JAMES  
NOTARY PUBLIC WAYNE CO., MI  
MY COMMISSION EXPIRES Sep 3, 2007

Diana Lane James  
Notary Public  
Acting in Oakland County

PATENT  
REEL: 014645 FRAME: 0036

Signed at Farmington Hills  
County of Oakland and State of MI  
This 30th day of September, 2003.

Jon K. Wallace  
Jon K. Wallace

STATE OF Michigan )  
COUNTY OF Oakland )

On this 30th day of September, 2003.  
Personally appeared before me Jon K. Wallace to me known to be the person named in and who executed the above instrument, and acknowledged to me that he executed the same for the uses and the purposes therein mentioned.

DIANNA LANE JAMES  
NOTARY PUBLIC WAYNE CO., MI  
MY COMMISSION EXPIRES Sep 3, 2007

Dianna Lane James  
Notary Public  
Acting in Oakland County

Signed at Farmington Hills  
County of Oakland and State of Michigan  
This 30th day of September, 2003.

Robert Dziadula  
Robert Dziadula

STATE OF Michigan )  
COUNTY OF Oakland )

On this 30th day of September, 2003.  
Personally appeared before me Robert Dziadula to me known to be the person named in and who executed the above instrument, and acknowledged to me that he executed the same for the uses and the purposes therein mentioned.

Dianna Lane James  
Notary Public  
Acting in Oakland County

DIANNA LANE JAMES  
NOTARY PUBLIC WAYNE CO., MI  
MY COMMISSION EXPIRES Sep 3, 2007

Signed at FARMINGTON HILLS  
County of OAKLAND  
This 30<sup>th</sup>

and State of MICHIGAN  
day of SEPTEMBER, 2003

  
Russell J. Lynch

STATE OF *Michigan* )  
COUNTY OF *Oakland* )


On this *30<sup>th</sup>* day of *September*, 2003.  
Personally appeared before me Russell J. Lynch to me known to be the person  
named in and who executed the above instrument, and acknowledged to me that he  
executed the same for the uses and the purposes therein mentioned.

*Dianna Lane James*  
Notary Public  
*Acting in Oakland County*

DIANNA LANE JAMES  
NOTARY PUBLIC WAYNE CO., MI  
MY COMMISSION EXPIRES Sep 3, 2007

Signed at FARMINGTON HILLS  
County of OAKLAND  
This 30<sup>th</sup>

and State of MICHIGAN  
day of SEPTEMBER, 2003

  
Farid Khairallah

STATE OF *Michigan* )  
COUNTY OF *Oakland* )

On this *30<sup>th</sup>* day of *September*, 2003.  
Personally appeared before me Farid Khairallah to me known to be the person  
named in and who executed the above instrument, and acknowledged to me that he  
executed the same for the uses and the purposes therein mentioned.

*Dianna Lane James*  
Notary Public  
*Acting in Oakland County*  
DIANNA LANE JAMES  
NOTARY PUBLIC WAYNE CO., MI  
MY COMMISSION EXPIRES Sep 3, 2007