

MRP 10/2/00

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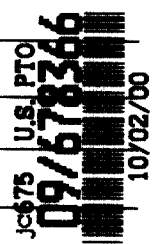
Original documents or copy thereof.

To the Honorable Commissioner of Patents and Trademarks

101502127

1. Name of conveying party(ies): Stephen R. W. Cooper

2. Name and address of receiving party(ies) Name: TRW Inc. Internal Address: Street Address: 1900 Richmond Road City: Lyndhurst State: OH Zip: 44124



3. Nature of conveyance: [X] Assignment [ ] Merger [ ] Security Agreement [ ] Change of Name [ ] Other Execution Date: September 27, 2000

4. Application number(s) or patent number(s): 09/678366 If this document is being filed together with a new application, the execution date of the application is September 27, 2000

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Ronald M. Kachmarik 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 [X] 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)

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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 Ronald M. Kachmarik Signature Date 10/2/00

Total number of pages including cover sheet, attachments, and document: 2

**ASSIGNMENT**

WHEREAS, I, Stephen R. W. Cooper, of Fowlerville, County of Livingston, and State of Michigan, have made new and useful improvements in **SENSOR APPARATUS AND METHOD FOR SENSING ANGULAR ROTATION OF AN OBJECT**;

WHEREAS, TRW Inc., a corporation duly organized and existing under the laws of the State of Ohio, having a place of business at Lyndhurst, County of Cuyahoga, State of Ohio, 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 me paid, the receipt whereof is hereby acknowledged, I, the said Stephen R. W. Cooper, do hereby assign, sell and set over unto the said TRW Inc. 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 me on the 27<sup>th</sup> day of September 2000, 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 I 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 Inc. its successors or assigns; and I further agree to execute such other applications and other instruments and do all other acts as may be deemed necessary by the said TRW Inc. 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 Inc. its successors or assigns.

Signed at Farmington Hills  
County of Oakland and State of Michigan  
This 27<sup>th</sup> day of September, 2000

Stephen R. W. Cooper  
Stephen R. W. Cooper

STATE OF Michigan )  
COUNTY OF Oakland ) SS:

On this 27<sup>th</sup> day of September, 2000.  
Personally appeared before me Stephen R. W. Cooper 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 County, MI  
My Commission Expires 09/3/2002