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FORM PTO-1595
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U.S. DEPARTMENT OF COMMERCE
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PATENTS ONLY

To the Assistant Commissioner for Patents: Please record the attached original documents or copies thereof.

OPR/FINANCE

1. Name of conveying party(ies):

Ralf Loeffert
Bernhard Troedel

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

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other: _____

2. Name and address of receiving party(ies):

Name: Mannesmann VDO AG

Internal Address: _____

Street Address: Kruppstraße 105

D-60388

City: Frankfurt am Main State: GERMANY ZIP: _____

Additional name(s) & address(es) attached? Yes No

Execution Dates: December 7, 1999

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

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)
Serial No.: 09/448,731

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Alyssa A. Dudkowski

Internal Address: Mayer, Brown & Platt

Street Address: P.O. Box 2828

City: Chicago State: Illinois ZIP: 60690-2828

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 for fee set forth above or any additional charges required.

8. Deposit account number: 13-0019

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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.

Alyssa A. Dudkowski, Reg. No. 40,596
Name of Person Signing

Alyssa A. Dudkowski
Signature

1/10/00
Date

Total number of pages including cover sheet: 4

PATENT
REEL: 010516 FRAME: 0293

ASSIGNMENT

WHEREAS, we, Ralf Löffert and Bernhard Troedel, the undersigned inventors having our residences as set forth below, have invented a new invention for:

ADAPTIVE NAVIGATION SYSTEM

as described and set forth in an application for United States Letters Patent, U.S. Serial No. 09/ 448,731 filed November 24, 1999; and

WHEREAS, Mannesmann VDO AG, (hereinafter referred to as "Assignee"), a company organized under the laws of Germany, with its principal place of business at Kruppstraße 105, D-60388, Frankfurt am Main, GERMANY desires to acquire the entire right, title and interest in and to said invention, improvements, application and any Letters Patents which may be granted therefor or thereupon, together with any and all divisions, continuations, reissues and extensions thereof in all countries throughout the world;

NOW, THEREFORE, to all whom it may concern, be it known that, for and in consideration of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors and assigns, the entire right, title and interest in and to said invention, improvements, and into said application and any Letters Patents which may be granted therefor or thereupon, together with any and all divisions, continuations, reissues and extensions thereof, and we authorize and request the Commissioner of Patents and Trademarks to issue any Letters Patent which may be granted for or upon said invention or applications, or patents resulting therefrom, insofar as our interest is concerned, unto Assignee in accordance with this Assignment.

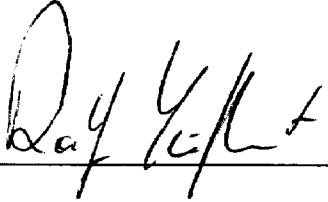
We also assign to Assignee, all right, title and interest in and to the invention disclosed in said application throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs throughout the world, including all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and we further agree to execute any and all powers of attorney,

applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such right, title and interest in Assignee.

We will communicate to Assignee, its successors and assigns or their representatives, any facts known to us respecting said invention and improvements; and, at the expense of Assignee, we will testify in any legal proceedings relating thereto, sign all lawful papers, execute all divisional, continuing, reissue and substitute applications, make all rightful oaths and declarations, and, in addition, execute any and all documents required to vest title in Assignee and to aid Assignee to obtain and enforce proper protection for said invention in all countries.

We covenant that we have the full right to convey the interest assigned by this Assignment, and we have not executed and will not execute any agreement in conflict with this Assignment.

This Assignment shall be binding on the parties' successors, assigns and legal representatives.

Signature of First Inventor: 

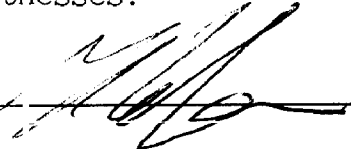
Inventor's Name: Ralf Löffert

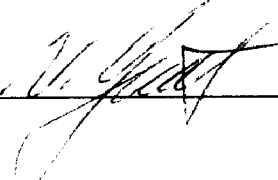
Residence: Stolberger Straße 41a
65205 Wiesbaden GERMANY

Citizenship: German

Date: 99-12-07

Witnesses:





Signature of Second Inventor:

Bernhard Troedel

Inventor's Name:

Bernhard Troedel

Residence:

Finkenweg 8

35606 Solms GERMANY

Citizenship:

German

Date:

99-72-07

witnesses:



