Form PTO-1595
RECORDATION
(Rev. 06/04)

103054174

08/ 01 U.S. Department of Commerce Patents & Trademark Office

Attorney Docket No. 100725-00153

103054171	Date: July 29, 2005			
To the Director of the U.S. Patent and Trademark Office: Please re	ecord the attached documents or the new address(es) below.			
To the Director of the U.S. Patent and Trademark Office: Please re  1. Name of conveying party(ies)/Execution Date(s):  Tohru NAKAGAWA Masazumi KOBAYASHI Takaaki SHIBATA  Execution Date(s): May 26, 2005  Additional name(s) of conveying party(ies) attached?  Yes  No  No	2. Name and address of receiving party(ies): Name: NTN CORPORATION  Address: 3-17, Kyomachibori 1-chome, Nishi-ku, Osaka-shi, Osaka-fu, Japan			
□ Assignment    □ Merger     □ Security Agreement    □ Change of Name     □ Government Interest Assignment     □ Executive Order 9424, Confirmatory License     □ Other	Additional name(s) & address(es) attached? ☐ Yes ☑ No			
4. Application number(s) or patent number(s): 11/123,238   A. Patent Application No.(s)	his document is being filed together with a new application.  B. Patent No.(s)			
Additional numbers attached? ☐ Yes ☑ No				
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: One			
Name: Arent Fox PLLC	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00			
Street Address: 1050 Connecticut Avenue, N.W., Suite 400 Washington, D.C. 20036-5339  Tel. No.: 202-857-6000 Fax No.: 202-638-4810	<ul> <li>✓ Included in attached check.</li> <li>✓ Authorized to be charged by credit card.</li> <li>✓ Authorized to be charged to Deposit Account.</li> <li>✓ Any additional fees are authorized to be charged to deposit account.</li> </ul>			
Email Address: dcipdocket@arentfox.com	8. Payment Information     a. Credit Card Last 4 Numbers:			
01/2005 HALI11 00000041 11123238 FC:8021 40.00 OF	Expiration Date:  b. Deposit account number: 01-2300 (Attach duplicate copy of this page if paying by deposit account)  Authorized User Name:			
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Statement and signature.  To the best of my knowledge and belief, the foregoing information is true and or	correct and any attached copy is a true copy of the original document.			
George E. Oram, Jr.	July 29, 2005			
Name of Person Signing Reg. No. 27,931  Total number of pages including courseheet, attachments, and documents 2				

PATENT REEL: 016820 FRAME: 0931

Docket No.	100725-00153
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## **U.S. ASSIGNMENT**

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR) by

	consideration paid to the undersigned invent	sideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR) by			
Insert	NTN CORPORATION				
ASSIGNEE's	3-17, Kyomachibori 1-chome, Nishi-ku,				
Name(s) Address(es)]	Osaka-shi, Osaka-fu, Japan  (hereinafter ASSIGNEE), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest, including the right to sue for past infringement, if any, and all rights pursuant to 35 U.S.C. §154, to the invention entitled				
Title of nvention]	for which application for Letters Patent of the United States was executed on even date herewith unless otherwise indicated below:				
*If the assignment s being filed after the filing of the					
application, this ection must be completed]	filed on May 6, 2005 (Arent Fox PLLC is hereby authorized to insert		ate hereon, when known)		
	and all Letters Patent of the United States to be obtained herefore on said application or any continuation, division, renewal, substitute, reissue or reexamination thereof, and any other application claiming priority thereto, for the full term or terms for which the same may be granted.  The ASSIGNOR agrees to execute all papers necessary in connection with application and any continuing, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.  The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, division, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.  IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).				
Signature(s)  f Assignor(s)]	John Makagawa (SIGNATURE)  Maazumi Kobayashi (SIGNATURE)  Fakaaki Shibata (SIGNATURE)	Tohru NAKAGAWA (TYPE NAME) Masazumi KOBAYASHI (TYPE NAME) Takaaki SHIBATA (TYPE NAME)	May 26, 2005  (DATE)  May 26, 2005  (DATE)  May 26, 2005  (DATE)		
	(SIGNATURE)	(TYPE NAME)	(DATE)		
	(SIGNATURE)	(TYPE NAME)	(DATE)		
	(SIGNATURE)	(TYPE NAME)	(DATE)		

**RECORDED: 07/29/2005** 

PATENT REEL: 016820 FRAME: 0932