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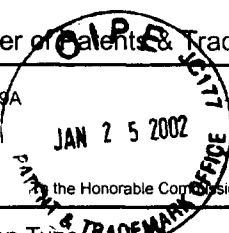
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(Rev. 6-99)



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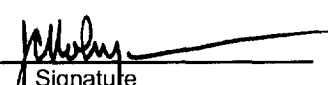
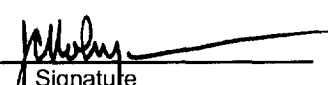
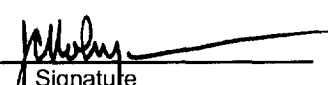


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<p>1. Submission Type</p> <p><input checked="" type="checkbox"/> New</p> <p><input type="checkbox"/> Resubmission (Non-Recordation) Document ID # _____</p> <p><input type="checkbox"/> Correction of PTO Error Reel # _____ Frame # _____</p> <p><input type="checkbox"/> Corrective Document Reel # _____ Frame # _____</p>	<p>2. Name of Conveying Party(ies): TAKAHASHI, Hidekazu</p> <p>Additional Name(s) of conveying party(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>					
<p>3. Name and Address of Receiving Party(ies):</p> <p>Name: Eagle Industry Co., Ltd.</p> <p>Street Address: 1-12-15 Shiba-Daimon, Minato-ku</p> <p>City: Tokyo</p> <p>State/Country: Japan Zip: _____</p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>4. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger</p> <p><input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name</p> <p><input type="checkbox"/> Other: _____</p> <p>Execution Dates: 12102001</p>					
<p>5. Application number(s) or patent number(s):</p> <p>If this document is being filed together with a new application,</p> <p><input type="checkbox"/> the first execution date of the application is : _____</p> <p><input checked="" type="checkbox"/> the filing date of the application is: 11202001</p> <table border="0"> <tr> <td data-bbox="178 1071 812 1176">A. Patent Application No.(s) 09988577</td> <td data-bbox="812 1071 1412 1176">B. Patent No.(s)</td> </tr> </table>		A. Patent Application No.(s) 09988577	B. Patent No.(s)			
A. Patent Application No.(s) 09988577	B. Patent No.(s)					
<p>6 Name and address of party to whom correspondence concerning this matter should be mailed:</p> <p>CUSTOMER NUMBER 00136</p> <p>or</p> <p>JACOBSON HOLMAN PLLC 400 Seventh Street, N.W. Washington, DC 20004 Tel. 202-638-6666</p> <p>Attorney Docket No. P67319US0</p>	<p>7. Number of applications and patents <input type="text" value="1"/></p> <p>8. Total fee (37 CFR 3.41) \$ 40.00</p> <p><input checked="" type="checkbox"/> Enclosed</p> <p><input checked="" type="checkbox"/> Any deficiencies in enclosed fees are authorized to be charged to deposit account 06-1358</p>					
<p>DO NOT USE THIS SPACE</p>						
<p>10. Statement and Signature.</p> <p>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.</p> <table border="0"> <tr> <td data-bbox="178 1722 617 1785"> <p>John C. Holman, Reg. No. 22,769 Name of Person Signing/ Reg. #</p> </td> <td data-bbox="617 1701 1055 1785">  Signature </td> <td data-bbox="1055 1722 1412 1785"> <p>January 25, 2002 Date</p> </td> </tr> <tr> <td colspan="2" data-bbox="714 1785 1412 1848" style="text-align: right;"> <p>Total number of pages excluding cover sheet: <input type="text" value="1"/></p> </td> </tr> </table>		<p>John C. Holman, Reg. No. 22,769 Name of Person Signing/ Reg. #</p>	 Signature	<p>January 25, 2002 Date</p>	<p>Total number of pages excluding cover sheet: <input type="text" value="1"/></p>	
<p>John C. Holman, Reg. No. 22,769 Name of Person Signing/ Reg. #</p>	 Signature	<p>January 25, 2002 Date</p>				
<p>Total number of pages excluding cover sheet: <input type="text" value="1"/></p>						

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PATENT REEL: 012511 FRAME: 0819

UNITED STATES OF AMERICA - ASSIGNMENT

(1-5) Insert Name(s) of Inventors (1) Hidekazu TAKAHASHI
 (2) _____
 (3) _____
 (4) _____ and
 (5) _____

In consideration of the sum of one dollar (\$1.00), and other good and valuable considerations paid to each of the undersigned, the receipt and sufficiency of which are hereby acknowledged, the undersigned hereby assigns, transfers and sets over to

(6) Insert Name of Assignee (6) Eagle Industry Co., Ltd.
 (7) Insert Address of Assignee (7) of 1-12-15 Shiba-Daimon, Minato-ku, Tokyo, Japan
 (8) Insert Legal Entity and State or Country (e.g., a corporation or citizen of Japan) (8) a corporation of Japan
 (hereinafter designated as the Assignee) the entire right, title and interest for the United States, its territories, dependencies and possessions, in the invention known as
 (9) Insert Identification of Invention, such as Title, Case Number or Foreign Application Number (9) MECHANICAL SEAL

(10) Insert Date of signing of Application, or filing date and Serial No., if known (10) Said application having been ~~executed~~ filed on November 20, 2001 (and assigned Serial No. 09/988,577)

1) The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing or divisional applications and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.
 2) The undersigned agree(s) to execute all papers necessary in connection with any Interference which may be declared concerning this or any continuing or divisional applications thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims provisions of the International Union for Protection of Industrial Property or similar agreements.

4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the

5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue any and all Letters Patents United States resulting from this application or any continuing or divisional applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute any agreement in conflict herewith.

6) Assignor hereby further assigns to Assignee all claims and causes of action for infringement of the patent rights assigned herein, including right to sue for, and collect damages for, any and all acts of past and future infringement.

7) The undersigned hereby grant(s) the law firm of **Jacobson Holman PLLC**, 400 Seventh Street, N.W., Washington, D.C. 20004, the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date	<u>2001.12.10</u>	Name of Inventor	<u>Hidekazu TAKAHASHI</u>	<u>Hidekazu Takahashi</u> (SEAL)
			typed name	signature
Date	_____	Name of Inventor	_____	_____ (SEAL)
			typed name	signature
Date	_____	Name of Inventor	_____	_____ (SEAL)
			typed name	signature
Date	_____	Name of Inventor	_____	_____ (SEAL)
			typed name	signature
Date	_____	Name of Inventor	_____	_____ (SEAL)
			typed name	signature

This assignment should preferably be signed before a United States Consul if signed abroad, or a Notary Public if domestically signed. If not, then the execution by the inventor(s) should be witnessed by at least two witnesses who sign here:

Additional inventor's names and on a separate sheet.

Witness _____
 Witness _____

LAW OFFICES OF
JACOBSON HOLMAN
 PROFESSIONAL LIMITED LIABILITY COMPANY
 THE JENIFER BUILDING
 400 SEVENTH STREET, N.W.
 WASHINGTON, D.C. 20004