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FORM PTO-1619A



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U.S. DEPARTMENT OF COMMERCE


(Rev. 6-99)

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Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original document or copy thereof.

<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):</p> <p>YAMADA, Masato</p> <p>IRIE, Nobuhiko</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: <u>MITSUBISHI HEAVY INDUSTRIES, LTD.</u></p> <p>Street Address: <u>5-1, Marunouchi 2-chome</u> <u>Chiyoda-ku</u></p> <p>City: <u>Tokyo</u></p> <p>State/Country: <u>JAPAN</u> Zip: _____</p> <p>Additional name(s) & address(es) <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 Date: <u>09271999</u></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: <u>11041999</u></p> <table border="0"> <tr> <td data-bbox="186 1108 836 1213">A. Patent Application No.(s) <u>09433960</u></td> <td data-bbox="836 1108 1445 1213">B. Patent No.(s)</td> </tr> </table>		A. Patent Application No.(s) <u>09433960</u>	B. Patent No.(s)				
A. Patent Application No.(s) <u>09433960</u>	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, PRICE, HOLMAN & STERN, PLLC 400 Seventh Street, N.W. Washington, DC 20004 Tel. 202-638-6666</p> <p>Attorney Docket No. <u>P63955US0</u></p>	<p>7. Number of applications and patents <input type="text" value="1"/></p> <p>8. Total fee (37 CFR 3.41) \$ <u>40.00</u></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 <u>06-1358</u></p>						
<p>03/06/2000 JSWABAZZ 00000254 01433960</p> <p>01 FC:581</p> <p>40.00 DP</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="186 1738 609 1801">John C. Holman / 22,769</td> <td data-bbox="609 1711 1055 1816"></td> <td data-bbox="1055 1738 1445 1801">February 8, 2000</td> </tr> <tr> <td>Name of Person Signing/ Reg. #</td> <td>Signature</td> <td>Date</td> </tr> </table> <p>Total number of pages excluding cover sheet: <input type="text" value="1"/></p>		John C. Holman / 22,769		February 8, 2000	Name of Person Signing/ Reg. #	Signature	Date
John C. Holman / 22,769		February 8, 2000					
Name of Person Signing/ Reg. #	Signature	Date					

UNITED STATES OF AMERICA—ASSIGNMENT

(1-6) Insert Name(s) of Inventors (1) Masato YAMADA
 (2) Nobuhiko IRIE
 (3)
 (4)
 (5) and
 (6)
 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 agree(s) to assign, transfer and set over to
 (7) Insert Name of assignee (7) MITSUBISHI HEAVY INDUSTRIES, LTD.
 (8) Insert Address of Assignee (8) of 5-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo, Japan
 (9) Insert Legal Entity and State or Country (e.g., a corporation or citizen of Japan) (9) 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
 (10) Insert Identification of Invention, (10) TIRE VULCANIZING MACHINE
 such as Title, Case Number or Foreign Application Number
 for which the undersigned has (have) executed an application for patent in the United States of America
 (11) Insert Date of Signing of Application, or filing date and Serial No., if known (11) Said application having been ~~executed~~ filed on... November 4, 1999... (and assigned Serial No. 09/433,960...)

1) The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing or divisional applications thereof 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 application 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 or 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 Assignee.
 5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue any and all Letters Patents of the 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) The undersigned hereby grant(s) the law firm of Jacobson, Price, Holman & Stern, 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>Sep. 27, 1999</u>	Name of Inventor <u>Masato YAMADA</u>	<u>Masato Yamada</u> (SEAL)
	typed name	signature
Date <u>Sep. 27, 1999</u>	Name of Inventor <u>Nobuhiko IRIE</u>	<u>Nobuhiko Irie</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

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 signatures on a separate sheet.

Witness Keiji Hirata
 Witness Keiji Sumitani

LAW OFFICES OF
JACOBSON, PRICE, HOLMAN & STERN
 THE JENIFER BUILDING
 400 SEVENTH STREET, N.W.
 WASHINGTON, D.C. 20004