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ONLY

TO THE ASSISTANT COMMISSIONER  
SIR: PLEASE RECORD THE ATTACHED ASSIGNMENT **100777546** HEREOF.

1. NAME OF CONVEYING PARTY(IES) / ASSIGNOR(S):

- 1. ONA, Hiroshi
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED?  YES  NO

2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: TAKUSHOKU UNIVERSITY

ADDRESS: 4-14, Kohinata 3-chome, Bunkyo-ku, Tokyo 112-8585 Japan

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED?  YES  NO

3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)

ASSIGNMENT OF  WHOLE  PART INTEREST

EXEC. DATE: April 1, 1998

CHANGE OF NAME  VERIFIED TRANSLATION  
 SECURITY  MERGER  OTHER:

EXECUTION DATE(S) ON THE DECLARATION IF FILED HERewith: (**NOTE:** IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!) April 1, 1998

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached?  YES  NO

A. PAT. APP. NO.(S) series code/serial no	M#	1* INVENTOR if not in item 1	B. PATENT NO(S) M#	1* INVENTOR if not in item 1
09/049,181	251790			

5. Name & Address of Party to Whom Correspondence Concerning Document Should be Mailed:

**Pillsbury Madison & Sutro LLP**  
**Intellectual Property Group**  
1100 NEW YORK AVENUE, N.W.  
NINTH FLOOR, EAST TOWER  
WASHINGTON, D.C. 20005-3918

6. NUMBER INVOLVED:  
APPLNS 1 + PATS 0 = TOTAL 1

7. AMOUNT OF FEE ENCLOSED: (Code 581)  
ABOVE TOTAL x \$40 = \$40

5.5 ATTY DKT:

8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975

07/23/98	00000047	09049181	TMW-98-03US		
03 FC:581	MATTER NO.	40-00-00	CLIENT REF.	dup. sheet not required	
				CLIENT NO.	MATTER NO.

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.

*Glenn J. Perry*  
Signature

10. Total number of pages including this cover sheet, attachments and document (do not file dup. Cover sheet)	2
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Attorney: Glenn J. Perry  
Reg. No. 28458 Date: July 20, 1998  
Atty/Sec: GJP/jk TEL: (202) 861-3070 FAX: (202) 822-0944

FILE WITH PTO RETURN RECEIPT (PAT-103A)

Please return signed/recorded to:  
 Cushman Darby & Cushman  
 Intellectual Property Group of  
 Pillsbury Madison & Sutro LLP  
 Ninth Floor, East Tower  
 1100 New York Avenue, N.W.  
 Washington, D.C. 20005-3918

USA Patent Appln.  
 Sole or Joint

For Inventions made outside USA  
 executed with or after application

Atty. Dkt. \_\_\_\_\_  
 M# \_\_\_\_\_ Client Ref. \_\_\_\_\_

**NONPROVISIONAL**

**NONPROVISIONAL**

**ASSIGNMENT  
 OF NONPROVISIONAL APPLICATION**

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT NAME(S) OF INVENTOR(S)	(1) Hiroshi ONA	(4)
	(2)	(5)
	(3)	<input type="checkbox"/> x box if continued on page 2

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT  
NAME(S) OF  
ASSIGNEE(S)  
& ADDRESS(ES)

TAKUSHOKU UNIVERSITY  
4-14, Kohinata 3-chome, Bunkyo-ku, Tokyo 112-8585 Japan

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof; and all resulting patents, known as

TITLE OF INVENTION

PIPE MEMBER, METHOD AND APPARATUS FOR MANUFACTURING THE PIPE MEMBER

for which the undersigned executed an application for Letters Patent of the United States of America:

NOTE -- (Complete line A, B and/or C)

(A)  even date herewith

(B)  on \_\_\_\_\_

(C)  in U.S. Appln. No. \_\_\_\_\_ / \_\_\_\_\_ filed on March 27, 1998

AND the under \_\_\_\_\_ AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE; signed hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE -- The undersigned hereby authorize(s) Cushman Darby & Cushman, Intellectual Property Group of Pillsbury Madison & Sutro LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

	<u>INVENTOR(S)</u>	<u>DATE SIGNED</u>	<u>WITNESSES</u>
1)	<u>Hiroshi Ona</u>	<u>April 1, 1998</u>	<u>April 1, 1998</u>
Name:	<b>Hiroshi ONA</b>		
2)	_____	_____	_____
Name:			
3)	_____	_____	_____
Name:			
4)	_____	_____	_____
Name:			
5)	_____	_____	_____
Name:			

IF ADDITIONAL INVENTORS, check box  and continue on page 2.