

<b>PATENT ASSIGNMENT COVER SHEET</b>
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EPAS ID: PAT4872539

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
HIROMI NAGAI	03/02/2018
TSUNEAKI HIRAOKA	03/02/2018
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<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	550-0003
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15761228
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<b>NAME OF SUBMITTER:</b>	PATRICIA T HILL
<b>SIGNATURE:</b>	/PATRICIA T HILL/
<b>DATE SIGNED:</b>	03/19/2018
<b>Total Attachments: 2</b>	
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source=ASSIGNMENT#page2.tif	

# ASSIGNMENT

In consideration of good and valuable consideration paid to each of the undersigned

Insert Name(s) Hiromi NAGAI  
of Tsuneaki HIRAOKA  
Inventor(s)

Insert Name(s) the undersigned hereby sell(s) and assign(s) to  
of NTN CORPORATION  
Assignee(s) of 3-17, Kyomachibori 1-chome, Nishi-ku, Osaka-shi, Osaka 550-0003, Japan  
Address

Title of (hereinafter designated as the Assignee) the entire right, title and interest for the  
Invention United States as defined in 35 USC 100, in the invention known as  
METHOD FOR MANUFACTURING OUTER JOINT MEMBER OF CONSTANT VELOCITY UNIVERSAL JOINT AND ULTRASONIC FLAW DETECTION-INSPECTION METHOD FOR A WELDED PORTION

The undersigned agree(s) to execute all papers necessary in connection with this application for patent in the USPTO for the invention, and any continuation, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any post-grant proceeding which may occur in connection with this application or continuation, divisional or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such post-grant proceeding.

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 Convention for Protection of Industrial Property or similar agreements, which includes the right to claim priority and the right to be granted a patent in any PCT Contracting State.

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.

The undersigned hereby authorize(s) and request(s) the USPTO to issue any and all

Letters Patents of the United States resulting from said application or any continuation, divisional or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and covenant(s) that the undersigned have not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the firm of Wenderoth Lind & Ponack, L.L.P., the power to insert on this document any further identification which may be necessary or desirable.

Executed by the undersigned on the date(s) opposite the undersigned name(s).

<u>Hironmi Nagai</u> (Signature) Hironmi NAGAI	<u>March 2nd, 2018</u> (Date)
<u>Tsuneaki Hiraoka</u> (Signature) Tsuneaki HIRAOKA	<u>March 2nd 2018</u> (Date)
_____ (Signature)	_____ (Date)
_____ (Signature)	_____ (Date)
_____ (Signature)	_____ (Date)
_____ (Signature)	_____ (Date)

Witness (optional) \_\_\_\_\_

Witness (optional) \_\_\_\_\_

The above application may be more particularly identified as follows:

U.S. Application Serial No.: \_\_\_\_\_  
Applicant Reference Number: EP2016-090US

Filing Date: \_\_\_\_\_  
Attorney Docket No. \_\_\_\_\_