Ma	il Stop:				
Assignment Recordation Services RECORDATION FORM		ON FORM COVER SHEET ATENTS ONLY U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office			
31	exandria, VA 22313-1450	Attorney Poolet No. 1573 A			
		Attorney Docket No. 1572 4			
Please record the attached document.					
Total number of pages including cover sheet, attachments, and document: 3					
1.	A. Name of conveying parties:	2. A. Name and address of receiving party:			
	[1] Susumu OKABE [2] Masanori SATO	TOYOTA JIDOSHA KABUSHIKI			
	[3] Masashi TAKAHASHI	KAISHA 1, TOYOTA-CHO,			
	[4] Tsuyoshi NANBA	TOYOTA-SHL AICHI-KEN.			
	B. Additional name(s) of conveying party(ies) attac	471-8571 JAPÁN			
3.	A. Nature of conveyance:	B. Additional name(s) & address(es) attached?			
		7102 172			
	☐ Security Agreement ☐ Change of Nam	ne			
	Other				
	B. Execution Date: [1], [3] & [4] - 10/02/20 [2] - 10/03/2012	<u>12 and</u>			
4.	A. Patent Application No. 13/878,247	B. Patent No.(s)			
	Additional numbers attached?				
	C. Title of Application: EVAPORATIVE PATTERN FOR MANUFACTURING A MODERN PRESS FORMING				
5.	Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1			
	Name: James A. Oliff	7. Please charge Deposit Account No. 15-0461 the total fee (37 CFR 3.41) in the amount of \$40.00.			
	Address: OLIFF & BERRIDGE, PLC P.O. Box 320850 Alexandria, VA 22320-4850 Phone Number: 703-836-6400 Fax Number: 703-836-2787	Credit any overpayment or charge any underpayment to deposit account number 15-0461.			
		indicate the second			
9.	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 original document.				
	James A. Oliff, Registration No. 27,075 Todd M. Guise, Registration No. 46,748 Roane T. Noel, Registration No. 63,004	Date: <u>April 8, 2013</u>			

PATENT REEL: 030166 FRAME: 0050

ASSIGNMENT FOR US PATENT APPLICATIONS AND US PATENTS

WHEREAS, the undersigned inventors, Susumu OKABE of Toyota-shi, Aichi-ken, Japan, Masanori SATO of Toyota-shi, Aichi-ken, Japan, Masashi TAKAHASHI of Toyota-shi, Aichi-ken, Japan and Tsuyoshi NANBA of Toyota-shi, Aichi-ken, Japan (hereinafter referred to as "the Assignors"), have invented certain new and useful improvements in "EVAPORATIVE PATTERN CASTING METHOD", and are the joint owner of the entire right, title and interest in and to said improvements;

WHEREAS, TOYOTA JIDOSHA KABUSHIKI KAISHA, a corporation duly organized under the laws of Japan, and having a principal place of business at 1, Toyota-cho, Toyota-shi, Aichi-ken, 471-8571 Japan (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title and interest of the Assignor in and to said improvements;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, do hereby sell, assign, transfer, and set over, unto the Assignee, its successors, and legal representatives, the entire right, title, and interest of the Assignors in and to the above-mentioned improvements, the above-mentioned entire right, title and interest of the Assignors include the entire right, title and interest in and to PCT patent application designating U.S. filed on January 28, 2011, the serial No. of which is PCT/JP2011/051825, in and to any and all US Patents that may be granted therefor and thereon, in and to any and all applications claiming priority to said applications, in and to any divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, and legal representatives to the full end of the term or terms for which Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby covenant to and agree with the Assignee, its successors and legal representatives, that, at the time of execution and delivery of these presents, the Assignor is the sole and lawful owner of their entire right, title, and interest in and to the improvements set forth in said above-mentioned application, and that the same right, title, and interest are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignors hereby covenant to and agree with the Assignee, its successors, and legal representatives that the Assignor will, whenever counsel of the Assignee, or the counsel of its successors, and legal representatives, shall advise that any proceeding in connection with said improvements, or any proceeding in connection with US Patents for said improvements in the United States of America, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Patents, or any reissue or extension of any Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Patents for said improvements, without charge to the Assignee, its successors, and legal representatives, but at the cost and expense of the Assignee, their successors, and legal

PATENT REEL: 030166 FRAME: 0051

	•	
TP	resentatives	•
IV	a cociitati i co	١.,

AND Assignors hereby authorize the Assignee, its successors and leg representatives, or anyone it may properly designate, to insert below the filing date and serioumber of said US patent application, when said filing date and serial number become available:						
US Patent Application Serial No Filing Date						
AND the Assignors hereby request the Commissioner of Patents and Trademarks to issue any and all said US Patents that may be granted upon any of the above-mentioned applications, in the name of the Assignee, for the sole use and behalf of the Assignee, its successors, and legal representatives.						
Date: 02/10/2012	Name of Assignor	Susumu Okale Susumu OKABE				
Date: 03/10/2012	Name of Assignor	Masanori Sato Masanori SATO				
Date: 02 / /0 /	2ομ Name of Assignor_	<u>Masashi Jakahashi</u> Masashi TAKAHASHI				
Date: <u>02/10/2012</u>	Name of Assignor	Tsuyoshi Nanba Tsuyoshi NANBA				

PATENT REEL: 030166 FRAME: 0052

RECORDED: 04/08/2013