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Please record the attached original document or copy thereof. Name of conveying parties: Name and address of receiving party: 2. A. Haruyuki NAKANISHI TOYOTA JIDOSHA KABUSHIKI KAISHA 1, TOYOTA-CHO, TOYOTA-SHI, Yusuke KUZUSHIMA AICHI-KEN, 471-8571 **JAPAN** Additional name(s) of conveying party(ies) attached? Additional name(s) & address(es) attached? ☐ Yes 🛛 No ☐Yes 🖾 No Nature of conveyance: \boxtimes Assignment ☐ Merger Security Agreement ☐ Change of Name Other_ Execution Date: ALL: November 6, 2009 \boxtimes This document is being filed together with a new application. Patent Application No.(s) ____ Patent No.(s) _ Additional numbers attached? ☐ Yes ☒ No C. Title of Application: ALKALINE FUEL CELL ELECTRODE CATALYST, ALKALINE FUEL CELL, MANUFACTURE METHOD FOR ALKALINE FUEL CELL ELECTRODE CATALYST, AND MANUFACTURE METHOD FOR ALKALINE FUEL CELL Name and address of party to whom correspondence Total number of applications and patents involved: $\underline{1}$ concerning document should be mailed: Name: James A. Oliff Total fee (37 CFR 3.41).....\$ 40.00 Enclosed (Check No. 224001) Address: OLIFF & BERRIDGE, PLC Credit any overpayment or charge any underpayment to P.O. Box 320850 deposit account number 15-0461. Alexandria, VA 22320-4850 Statement and signature. 00000016 12451/522 11/19/2009 MJAMA1 To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true CODV OF OF 01 FC:8021 the original document. Date: November 17, 2009 James A. Oliff, Registration No. 27,075 Benjamin S. Prebyl, Registration No. 60,256 Total number of pages including cover sheet, attachments, and document: 2

> PATENT REEL: 023544 FRAME: 0581

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(TFN08007E-US)

ASSIGNMENT Haruyuki NAKANISHI (5) (1) Yusuke KUZUSHIMA (6) (1-8)(2)Insert Name(s) of Inventor(s) (3) _____(7) _____ (4) _____(8) In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, each undersigned agrees to assign, and hereby does assign, transfer and set (9) Insert Name of TOYOTA JIDOSHA KABUSHIKI KAISHA (9) Assignee (10)Insert Address of 1, Toyota-cho, Toyota-shi, Aichi-ken, 471-8571 Japan Assignee (hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, substitute, and reissue application(s), and all Letters Palent, extensions, reissues and reexamination certificates that may be granted on the invention known as ALKALINE FUEL CELL ELECTRODE CATALYST, ALKALINE FUEL CELL, (11)MANUFACTURE METHOD FOR ALKALINE FUEL CELL ELECTRODE CATALYST, AND MANUFACTURE METHOD FOR ALKALINE FUEL CELL Identification PCT/IB2008/001207 such as Title, Case Number, or Foreign (Attorney Docket No. 143317 Application Number for which the undersigned has (have) executed an application for patent in the United States of America on even date herewith or Insert Date of (12)Signing of (12) on _ Application (13) U.S. application Serial Number (13)Alternative

1) Each undersigned agrees to execute all papers necessary in connection with any application and any continuing, divisional or reissue applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.

November 17, 2009

2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning any application or continuation or division thereof, or any patent or reissue application based thereon, for the invention, and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

3) Each undersigned agrees 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.

4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.

5) Each undersigned authorizes and requests the Director of Patents to issue any and all Letters Patents of the United States resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he has full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreements in conflict herewith, and agrees that this assignment is binding on him and his heirs, successors, assigns and legal representatives.

6) Each undersigned hereby grants the firm of OLIFF & BERRIDGE, FLC the power to insert on this assignment any further identification that 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 where	of,	executed by the unc	dersigned on the date(s) o			
Date	November	6,	2009	Inventor Signature	Horwyski	Nahanirko	(SEAL)
Date	November	6,	2009	Inventor Signature	muche	Huzzushina	(SEAL)
Date						· v	(SEAL)
Date				Inventor Signature			(SEAL)
Date				Inventor Signature			(SEAL)
Date				Inventor Signature			(SEAL)
Date				Inventor Signature			(SEAL)
Date				Inventor Signature			(SEAL)
This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:							
Date	November 6	ĵ,	2009	Witness	Hidekas	su arikawa	
Date	November (,	2009	Witness	Hider	nagarda	
						<i>()</i>	

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Identification for

filed applications