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FORM PTO-1595 (Rev. 6-93)		09-25-2000	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office	
OMB No. 0651-0011 (exp. 4/94)		 101467392	IEET	
Tab settings				
To the Assistant Commissioner for Patents: Please record the attached original documents or copy thereof.				
1. Name of conveying party(ies): Masakazu MITSUHASHI, Yasuaki MASHIKO and Hitoshi KURABE Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		2. Name and address of receiving party(ies) Name: <u>MITSUI MINING & SMELTING CO., LTD.</u> Street Address: <u>11-1, Osaki 1-chome,</u> <u>Shinagawa-ku, Tokyo 141-8584, Japan</u> City: _____ State: _____ ZIP: _____ Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____ Execution Date: <u>August 16, 2000</u>				
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: <u>August 16, 2000</u> A. Patent Application No.(s) _____ B. Patent No.(s) _____ <div style="text-align: center; font-size: 2em;">09654769</div> Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>Kent E. Baldauf</u> Internal Address: <u>Webb Ziesenheim Logsdon</u> <u>Orkin & Hanson, P.C.</u> Street Address: <u>700 Koppers Building</u> <u>436 Seventh Avenue</u> City: <u>Pittsburgh</u> State: <u>PA</u> ZIP: <u>15219 1818</u>		6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41).....\$ <u>40.00</u> <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account 8. Deposit account number: _____ (Attach triplicate copy of this page if paying by deposit account)		
DO NOT USE THIS SPACE				
<div style="display: flex; justify-content: space-between;"><div>09/22/2000 MTHA11 00000296 09654769</div><div>01 FC:581</div></div> <div>Statement and signature: <u>40.00</u> 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. <div style="display: flex; justify-content: space-between;"><div><u>Kent E. Baldauf</u> Name of Person Signing Reg. No. 25,826</div><div> Signature</div><div><u>September 5, 2000</u> Date</div></div><div style="text-align: center;">Total number of pages including cover sheet, attachments and document 3</div></div>				

Mail documents to be recorded with required cover sheet information to:
Assistant Commissioner for Patents, Box Assignments
Washington, D.C. 20231

PATENT
REEL: 011086 FRAME: 0980

ASSIGNMENT

1)

2)

Masakazu MITSUHASHI, Yasuaki MASHIKO

3) WHEREAS, We,

and Hitoshi KURABE

in c/o Copper Foil Division, MITSUI MINING & SMELTING CO., LTD., 656-2, Kamakura-

bashi, Ageomura, Ageo-shi, Saitama 362-0013, Japan for 1) & 3) and*** respectively,

have invented certain new and useful improvements entitled ELECTRODEPOSITED COPPER FOIL WITH ITS SURFACE PREPARED, PROCESS FOR PRODUCING THE SAME AND USE

for which we have this day executed an application for United States Letters Patent; THEREO

AND, WHEREAS

MITSUI MINING & SMELTING CO., LTD.

a corporation of Japan, having a place of business at 11-1, Osaki 1-chome, Shinagawa-ku, Tokyo 141-8584, Japan, hereinafter called the "assignee", is desirous of acquiring the entire right, title, and interest in and to said application and the inventions and improvements therein disclosed.

NOW, THEREFORE, in consideration of One (\$1.00) Dollar and other good and valuable consideration paid to us by said assignee, the receipt of which is hereby acknowledged, we do hereby assign, sell, transfer, and set over unto said assignee the entire right, title and interest in and to said application and the inventions and improvements therein disclosed for the United States and all foreign countries and any Letters Patent which may issue therefor in the United States and all foreign countries and all divisions, reissues, continuations, renewals, and/or extensions thereof, said assignee to have and to hold the interests herein assigned to the full ends of the terms of said Letters Patent and any and all divisions, reissues, continuations, renewals, and/or extensions thereof, respectively, as fully and entirely as the same would have been held and enjoyed by us had this assignment not been made.

The Commissioner of Patents and Trademarks is requested to issue such Letters Patent in accordance herewith. We covenant that we are the lawful owners of the said application, inventions, and improvements, that the same are unencumbered, that no license has been granted to make, use, or vend the said inventions or improvements or any of them, and that we have the full right to make this assignment.

And for the consideration aforesaid, we agree jointly and individually that we will communicate to said assignee or the representatives thereof any facts known to us respecting said inventions and improvements, and will, upon request, but without expense to us, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, renewal, and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by said assignee or by counsel for said assignee, to assist or enable said assignee to obtain and enforce full benefits from the rights and interests herein assigned. This assignment shall be binding upon our heirs, executors,

*** c/o Corporate R & D Center, MITSUI MINING & SMELTING CO., LTD., 1333-2, Haraichi, Ageo-shi, Saitama 362-0021, Japan for 2)

administrators, and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of said assignee.

EXECUTED August 16, 2000.

Masakazu Mitsuhashi

Masakazu MITSUHASHI

Yasuaki Mashiko

Yasuaki MASHIKO

Akira Hara

Witness

Hitoshi Kurabe

Hitoshi KURABE

Ryoko Kanar

Witness