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To the Director of the United States Patent and Trademark Office, *File*

attached original documents or copy thereof.

1. Name of conveying party(ies):  
**TOHOKU TECHNO ARCH CO., LTD.**

Additional names(s) of conveying party(ies)  Yes  No

2. Name and address of receiving party(ies):

MASUO OKADA  
9-6 Yagiyamaminami 3-chome  
Taihaku-ku, Sendai-shi  
Miyagi 982-0807  
JAPAN

DOWA MINING CO., LTD.  
8-2, Marunouchi 1-chome  
Chiyoda-ku  
Tokyo 100-8282  
JAPAN

Additional name(s) & address(es)  Yes  No

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name

Other Transfer of 25% interest to Masuo OKADA and transfer of 25% interest to DOWA Mining Co., Ltd. Assignee retains 50% interest

Execution Date: March 23, 2005

4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is:

Patent Application No.	Filing date
<u>09/913,625</u>	<u>August 16, 2001</u>
<u>10/959,216</u>	<u>October 6, 2004</u>
<u>10/991,725</u>	<u>November 18, 2004</u>

B. Patent No.(s)

6,835,490

Additional numbers  Yes  No

OPR/FINANCE  
2005 APR -1 AM 7:27

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Norman P. Soloway  
Registration No. 24,315  
Address: HAYES SOLOWAY P.C.

130 W. Cushing Street

04/06/2005 ECDOPER 00000274 09913625

01 FC+0021 40.00 OP

City: Tucson State/Prov.: AZ  
Country: U.S.A. ZIP: 85701

6. Total number of applications and patents involved: **4**

7. Total fee (37 CFR 3.41):.....\$ 160.00

Enclosed - Any excess or insufficiency should be credited or debited to deposit account

Authorized to be charged to deposit account

8. Deposit account number:

18-1391

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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.*

Norman P. Soloway  
Name of Person Signing

Signature

March 24, 2005

Date

**3**

Total number of pages including cover sheet, attachments, and

Mail documents to be recorded with required cover sheet information to:  
Mail Stop Assignment Recordation Services  
Director of the United States Patent and Trademark Office  
P.O. Box 1450, Alexandria, VA 22313-1450

## PATENT APPLICATION ASSIGNMENT

WHEREAS, **Tohoku Techno Arch Co., Ltd.**, a Japanese corporation, having its principal place of business at 468, Aza Aoba, Aramaki, Aoba-Ku, Sendai-shi, Miyagi, Japan (hereinafter "Tohoku Techno" or "Assignor"), is the owner and assignee of record of the patents and patent applications listed below;

WHEREAS, **Masuo Okada**, a Japanese citizen residing at 9-6 Yagiyamaminami 3-chome, Taihaku-ku, Sendai-shi, Miyagi 982-0807, Japan, (hereinafter "Okada") is desirous of obtaining one-quarter, i.e., twenty-fifty percent (25%) of Assignor's right, title and interest in the patents and patent applications listed below and inventions disclosed therein, and to any United States patent to be obtained therefor; and

WHEREAS, **DOWA Mining Co., Ltd.**, a Japanese corporation, having its principal place of business at 8-2, Marunouchi 1-chome, Chiyoda-ku, Tokyo 100-8282, Japan, (hereinafter "DOWA") is desirous of obtaining one-quarter, i.e., twenty-fifty percent (25%) of Assignor's right, title and interest in the patents and patent applications listed below and inventions disclosed therein, and to any United States patent to be obtained therefor;

NOW, THEREFORE, for valuable consideration, receipt of which is hereby acknowledged, **Tohoku Techno**, hereby sells, assigns and transfers to **Okada**, his successors and assigns, one-quarter of Assignor's right, title and interest including rights to recover for past infringement in the below listed patents and patent applications, the inventions disclosed therein, and to any and all patents for the United States of America, which may be granted thereon, and requests the Commissioner - U.S. Patent and Trademark Office to issue any Letters Patent granted upon the inventions set forth in said Applications to include **Okada** herein, his successors and assigns; and Assignor will execute without further consideration all papers deemed necessary by **Okada** in connection with said United States patents and patent applications when called upon to do so by **Okada**; and

NOW, THEREFORE, for valuable consideration, receipt of which is hereby acknowledged, **Tohoku Techno**, hereby sells, assigns and transfers to **DOWA**, its successors and assigns, one-quarter of Assignor's right, title and interest including rights to recover for past infringement in the below listed patents and patent applications, the inventions disclosed therein, and to any and all patents for the United States of America, which may be granted thereon, and requests the Commissioner - U.S. Patent and Trademark Office to issue any Letters Patent granted upon the inventions set forth in said Applications to include **DOWA** herein, its successors and assigns; and Assignor will execute without further consideration all papers deemed necessary by **DOWA** in connection with said United States patents and patent applications when called upon to do so by **DOWA**.

Serial No.: 09/913,625  
Filed: August 16, 2001  
For: Hydrogen Storage Alloy and Method for Preparing  
the Same

Serial No.: 10/959,216  
Filed: October 6, 2004  
For: Hydrogen Storage Alloy and Production Thereof

Patent No.: 6,835,490  
Issued: December 28, 2004  
For: Alloy for Hydrogen Storage, Method for Absorption  
and Release of Hydrogen Using the Alloy, and  
Hydrogen Fuel Cell Using the Method


Serial No.: 10/991,725  
Filed: November 18, 2004  
For: Hydrogen Storage Metal Alloy, Method for Absorption  
and Release of Hydrogen Using the Said Alloy and  
Hydrogen Fuel Battery Using the Said Method

IN WITNESS WHEREOF, Tohoku Techno Arch Co., Ltd., has executed this  
Assignment by proper persons duly authorized.

Tohoku Techno Arch Co., Ltd.

Attest:

  
Kazuo SHIGENOBU

  
Name: Yoshio OZAKA  
Title: President  
March 23, 2005