503731291 03/10/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3777933

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HAIBO YI	02/22/2016
YI DONG	02/22/2016
SHULIN DIAO	02/22/2016
YI YUAN	02/22/2016
SHUJIE WU	02/22/2016
CAILING SUN	02/22/2016
JUCHANG MIAO	02/22/2016
YA CHEN	02/22/2016
WENJIE YUAN	02/22/2016

RECEIVING PARTY DATA

Name:	TIANHE (BAOTOU) ADVANCED TECH MAGNET CO., LTD.	
Street Address:	NO. 8-17 RARE EARTH AVENUE	
Internal Address:	RARE EARTH HIGH-TECH INDUSTRIAL PARK	
City:	BAOTOU	
State/Country:	CHINA	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15060188

CORRESPONDENCE DATA

Fax Number: (908)654-7866

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: (908) 654-5000

Email: assignment@lernerdavid.com

LDLK&M **Correspondent Name:**

Address Line 1: 600 SOUTH AVENUE WEST

Address Line 4: WESTFIELD, NEW JERSEY 07090

ATTORNEY DOCKET NUMBER: 9GFZ 3.0F-003

NAME OF SUBMITTER: MELINDA C. CORMIER

> **PATENT** REEL: 037947 FRAME: 0434

503731291

SIGNATURE:	/Melinda C. Cormier/
DATE SIGNED:	03/10/2016
Total Attachments: 9	
source=003 Assignments#page1.tif	
source=003 Assignments#page2.tif	
source=003 Assignments#page3.tif	
source=003 Assignments#page4.tif	
source=003 Assignments#page5.tif	
source=003 Assignments#page6.tif	
source=003 Assignments#page7.tif	
source=003 Assignments#page8.tif	
source=003 Assignments#page9.tif	

PATENT REEL: 037947 FRAME: 0435

former PTO/SB/15 (8-00) Modified LDLK&M

ASSIGNMENT OF UTILITY APPLICATION	9GFZ 3.0F-003	
Whereas, I, Haibo Yi No. 8-17 Rare Earth Avenue, Rare Earth High-tech Industrial Park, Inner-Mongolia, Baotou, P.R. China 014030		
hereafter referred to as assignor, have with others invented certain new and useful improvements in PREPARATION OF PERMANENT MAGNET MATERIAL		
x for which an application for a United States Letters Patent was filed on March 3, 2016		
Application Number 15/060, 188		
for which an application for a United States Letters Pater for which an International Application was filed on	<u> </u>	
to which are increased and photocols was need on	, , , , , , , , , , , , , , , , ,	
, designating the United	States.	
Whereas, Tianhe (Baotou) Advanced Tech Magnet Co.,	Ltd.	
a corporation of People's Republic of China herein referred to a		
No. 8-17 Rare Earth Avenue; Rare Earth High-tech Industri CHINA	al Park; Baotou; PEOPLE'S REPUBLIC OF	
is desirous of acquiring the entire right, title and interest in the se	ame;	
is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignse of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.		
And I do hereby authorize my attorneys to insert on this deed the when known.	e filing date and application number of said application	
Jeb 22nd, 2016	Haibo. Yi	
7cb.22nd, 2016 Date	Haibo Yi	
Zhì Min Wu Witness Zhi min Wu Typed Name of Witness		

X

*Total of

former PTO/SB/15 (8-90) Modified LOLKISM

ASSIGNMENT OF UTILITY APPLICATION	9GFZ 3.0F-003	
Whereas, I, Yi Dong of No. 8-17 Rare Earth Avenue, Rare Earth High-tech Industrial Park, Inner-Mongolia, Baotou, P.R. China 014030		
nereafter referred to as assignor, have with others invented certain new and useful improvements in PREPARATION OF PERMANENT MAGNET MATERIAL		
x for which an application for a United States Letters Pate Application Number 15/060,188	ent was filed on <u>March 3, 2016</u>	
for which an application for a United States Letters Pater	it was executed by me on	
for which an International Application was filed on	, as	
, designating the United	States.	
And		
Whereas, Tianhe (Baotou) Advanced Tech Magnet Co.,		
a corporation of People's Republic of China, herein referred to a No. 8-17 Rare Earth Avenue; Rare Earth High-tech Industria CHINA		
is desirous of acquiring the entire right, title and interest in the sa	ome;	
NOW, THEREFORE, in consideration of the sum of one dollar (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignse of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses inc		
And I do hereby authorize my attorneys to insert on this deed the when known.	e filing date and application number of said application	
Jeb. 22 nd, 2016 _	Yi Dong Yi Dong	
Uate	Yi Dong V	
Zhi Min Wu Witness Zhi Min Wu Typed Name of Witness		
Typed Name of Witness		

Х

*Total of

ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

Whereas, I, Shulin Diao No, 8-17 Rare Earth Avenue, Rare Earth High-tech Industrial Park, Inner-Mongolia, Baotou, P.R. China O14030 herafiter referred to as assignor, have with others invented certain new and useful improvements in PREPARATION OF PERMANENT MAGNET MATERIAL. X for which an application for a United States Letters Patent was filed on March 3, 2016 Application Number 15/360,188 for which an application for a United States Letters Patent was executed by me on for which an International Application was filed on as , designating the United States. And Whereas, Tianhe (Baotou) Advanced Tech Magnet Co., Ltd. a corporation of People's Republic of China, herein referred to as "assignee" whose mailing address is No. 8-17 Rare Earth Avenue, Rare Earth High-tech industrial Park, Baotou; PEOPLE'S REPUBLIC OF CHINA is destrous of acquiring the entire right, title and interest the the same; NOW, THEREFORE, in consideration of the sum of one dollar (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, it as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the storesaid utility patent applications and patents for said invention and the storesaid utility patent application and elicity application, substitute or reissue applications and patents perplet for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit to said assignee my entire right, title and rierest for the United States of America and all other countries, for said invention and the storesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and nomination of the s	N. N. d ^r o. Pr. N. d ^r o. K. d ^r o. K. d ^{ro.} K. d ^{ro.} K. d ^{ro.} K. d ^{ro.} C. d ^{ro.} K. d ^{ro.}	9GFZ 3.0F-003	
PREPARATION OF PERMANENT MAGNET MATERIAL X for which an application for a United States Letters Patent was filed on March 3, 2016 Application Number 15/050,188 Tor which an application for a United States Letters Patent was executed by me on Tor which an International Application was filed on as designating the United States. And And Application of People's Republic of China, herein referred to as "assignee" whose mailing address is No. 8-17 Rare Earth Avenue; Rare Earth High-tech Industrial Park; Baolou; PEOPLE'S REPUBLIC OF CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHI	No. 8-17 Rare Earth Avenue, Rare Earth High-tech Industrial Park, Inner-Mongolia, Baotou,		
X for which an application for a United States Letters Patent was filed on March 3, 2016	hereafter referred to as assignor, have with others invented certa	in new and useful improvements in	
Application Number 15/060,188 for which an application for a United States Letters Patent was executed by me on for which an International Application was filed on , as , designating the United States. And Whereas, Tianhe (Baotou) Advanced Tech Magnet Co., Ltd. a corporation of People's Republic of China, herein referred to as "assignee" whose mailing address is No. 8-17 Rare Earth Avenue; Rare Earth High-tech Industrial Park; Baotou; PEOPLE'S REPUBLIC OF CHINA is desirous of acquiring the entire right, title and interest in the same; NOW, THEREFORE, in consideration of the sum of one dollar (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assigner hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents to said invention not all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assig	PREPARATION OF PERMANENT MAGNET MATER	IAL	
for which an application for a United States Letters Patent was executed by me on for which an International Application was filed on , designating the United States. And Whereas, Tianhe (Baotou) Advanced Tech Magnet Co., Ltd. a corporation of People's Republic of China, herein referred to as "assignee" whose mailing address is No. 8-17 Rare Earth Avenue; Rare Earth High-tech Industrial Park; Baotou; PEOPLE'S REPUBLIC OF CHINA is desirous of acquiring the entire right, title and interest in the same; NOW, THEREFORE, in consideration of the sum of one dollar (\$ 1.00), he receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents of said invention daining priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successor, assigns and legal representatives, and including the right to claim such priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successor, assigns and legal representatives, and including the right to claim such priority or benefit of the aforesaid utility applications or the entire interest therein; and the undersigned for me and my legal appresentatives, heirs and assignse or the entire interest therein; and the undersigned representat		ent was filed on <u>March 3, 2016</u>	
, designating the United States. And Whereas, Tianhe (Bactou) Advanced Tech Magnet Co., Ltd. a corporation of People's Republic of China, herein referred to as "assignee" whose mailing address is No. 8-17 Rare Earth Avenue; Rare Earth High-tech Industrial Park; Bactou; PEOPLE'S REPUBLIC OF CHINA is desirous of acquiring the entire right, title and interest in the same; NOW, THEREFORE, in consideration of the sum of one dollar (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility pathent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries for said invention and patents applications pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for axid collect the same for its own use and the use of its successors, assigns and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns dehereby agree and coverant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all rightful colins, and to do generally everything necessary to aid assignee in visional, continuation, reissue and other applications for Letters Patent on said improvements and all rightful colins, and to do generally everything necessary to aid assignee in the representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said appl		it was executed by me on	
Whereas, Tianhe (Baotou) Advanced Tech Magnet Co., Ltd. a corporation of People's Republic of China, herein referred to as "assignee" whose mailing address is No. 8-17 Rare Earth Avenue; Rare Earth High-tech Industrial Park; Baotou; PEOPLE'S REPUBLIC OF CHINA is desirous of acquiring the entire right, title and interest in the same; NOW, THEREFORE, in consideration of the sum of one dollar (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interference or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all ri	for which an International Application was filed on		
Whereas, Tianhe (Baotou) Advanced Tech Magnet Co., Ltd. a corporation of People's Republic of China, herein referred to as "assignee" whose mailing address is No. 8-17 Rare Earth Avenue; Rare Earth High-tech Industrial Park; Baotou; PEOPLE'S REPUBLIC OF CHINA is desirous of acquiring the entire right, title and interest in the same; NOW, THEREFORE, in consideration of the sum of one dollar (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention diaming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements on resulting therefrom to said assignee herein, as assigns do hereby agree and coverant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to s	, designating the United	States.	
a corporation of People's Republic of China, herein referred to as "assignee" whose mailing address is No. 8-17 Rare Earth Avenue; Rare Earth High-tech Industrial Park; Baotou; PEOPLE'S REPUBLIC OF CHINA is desirous of acquiring the entire right, title and interest in the same; NOW, THEREFORE, in consideration of the sum of one dollar (\$ 1,00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applications and patents of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its usocessors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns of hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or the presentatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications for Letter	And		
No. 8-17 Rare Earth Avenue; Rare Earth High-tech Industrial Park; Baotou; PEOPLE'S REPUBLIC OF CHINA is desirous of acquiring the entire right, title and interest in the same; NOW, THEREFORE, in consideration of the sum of one dollar (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oths, an	Whereas, Tianhe (Baotou) Advanced Tech Magnet Co.,	Ltd.	
CHINA is desirous of acquiring the entire right, title and interest in the same; NOW, THEREFORE, in consideration of the sum of one dollar (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention, claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assigns do hereby agree and coverant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications for patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applicatio	a corporation of People's Republic of China, herein referred to	s "assignee" whose mailing address is	
NOW, THEREFORE, in consideration of the sum of one dollar (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covernant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements, whenever requested, to said appl	CHINA		
is acknowledged, and other good and valuable consideration, I as assignor hereby self, assign and set over to said assignee my entire right, little and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to Issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said application when known. Shullin Diao Shulin Diao Witness Witness	is desirous of acquiring the entire right, title and interest in the sa	me;	
when known. Feb. 27 md, 2016 Date Shu Cin Diao Shulin Diao Thi Min Wu Witness Thi Min Wu	assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covernant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne		
<u>Thi min Wu</u> Witness Thi min Wu		e filing date and application number of said application	
<u>Thi min Wu</u> Witness Thi min Wu	Feb. 22 nd. 2016	Shu Lin Diao	
Zhi min Wu Witness Zhi min Wu Typed Name of Witness	Date	Shulin Diao	
Zhi min Wu Typed Name of Witness	<u> </u>	× ************************************	
	Zhj min Wu Typed Name of Witness		

*Total of

9

former PTO/SB/15 (8-00) Modified LDLK&M

a an an o an a an a come a more and a more to another a more a sound a more and a more a	Docket Number (Optional)
ASSIGNMENT OF UTILITY APPLICATION	9GFZ 3.0F-003
Whereas, I, Yi Yuan No. 8-17 Rare Earth Avenue, Rare Earth High-tech Ind P.R. China 014030	of dustrial Park, Inner-Mongolia, Baotou,
hereafter referred to as assignor, have with others invented certa PREPARATION OF PERMANENT MAGNET MATER	
x for which an application for a United States Letters Pate Application Number 15/060,188	
for which an application for a United States Letters Paten	t was executed by me on
for which an International Application was filed on	, as
, designating the United	States.
And	
Whereas, Tianhe (Baotou) Advanced Tech Magnet Co.,	
a corporation of People's Republic of China, herein referred to a No. 8-17 Rare Earth Avenue; Rare Earth High-tech Industria CHINA	
is desirous of acquiring the entire right, title and interest in the sa	me;
assignee my entire right, title and interest for the United State invention and the aforesaid utility patent application and all o applications and patents applied for or granted therefor in the said invention, including without limitation all applications and p the aforesaid utility application pursuant to any law or treaty, ar infringement with the right to sue for and collect the same for its legal representatives, and including the right to claim such prior Trademarks is hereby authorized and requested to issue all pasaid assignee herein, as assignee of the entire interest the representatives, heirs and assigns do hereby agree and covenar all original, divisional, continuation, reissue and other application assignments thereof to said assignee or its assigns, to communication to the undersigned respecting said improvements, whenever the undersigned respecting said improvements, whenever the undersigned respecting said improvements or patents in all rightful oaths, and to do generally everything necessary to all obtain patent protection for said improvements in all countries, the and paid by said assignee.	riginal, divisional, continuation, substitute or reissue United States of America and all other countries, for atents for said invention claiming priority or benefit of including all claims for damages by reason of past sown use and the use of its successors, assigns and writy or benefit and the Commissioner of Patents and tents on said improvements or resulting therefrom to herein; and the undersigned for me and my legal int without further remuneration, to execute and deliverons for Letters Patent on said improvements and all nicate to said assignee or its representatives all facts ever requested, to testify in any interferences or other may become involved, to sign all lawful papers, make it assignee, its successors, assigns and nominees to
And I do hereby authorize my attorneys to insert on this deed the when known.	e filing date and application number of said application
Feb, 22nd, 2016	11 Yuan
Date	Yi Yuan
Zhi min Wu Witness Zhi min Wu Typed Name of Witness	
Typed Name of Witness	

*Total of

forms are submitted.

PATENT REEL: 037947 FRAME: 0439

former PTO/SB/15 (8-00) Modified LCLK&M

	Docket Number (Optional)	
ASSIGNMENT OF UTILITY APPLICATION	9GFZ 3.0F-003	
Whereas, I, Shujie Wu No. 8-17 Rare Earth Avenue, Rare Earth High-tech Ind P.R. China 014030	of dustrial Park, Inner-Mongolia, Baotou,	
hereafter referred to as assignor, have with others invented certain new and useful improvements in PREPARATION OF PERMANENT MAGNET MATERIAL		
x for which an application for a United States Letters Pate Application Number 15/060, 188		
for which an application for a United States Letters Paten		
for which an International Application was filed on		
, designating the United	States.	
And		
Whereas, Tianhe (Baotou) Advanced Tech Magnet Co.,	Ltd.	
a corporation of People's Republic of China, herein referred to a No. 8-17 Rare Earth Avenue; Rare Earth High-tech Industria CHINA		
is desirous of acquiring the entire right, title and interest in the sa	me;	
invention and the aforesaid utility patent application and all of applications and patents applied for or granted therefor in the said invention, including without limitation all applications and puthe aforesaid utility application pursuant to any law or treaty, are infringement with the right to sue for and collect the same for its legal representatives, and including the right to claim such price trademarks is hereby authorized and requested to issue all passid assignee herein, as assignee of the entire interest the representatives, heirs and assigns do hereby agree and covenar all original, divisional, continuation, reissue and other application assignments thereof to said assignee or its assigns, to communication to the undersigned respecting said improvements, whenever the undersigned respecting said improvements, whenever the undersigned respecting said improvements or patents in all rightful oaths, and to do generally everything necessary to all rightful oaths, and to do generally everything necessary to all obtain patent protection for said improvements in all countries, the and paid by said assignee.	United States of America and all other countries, for atents for said invention claiming priority or benefit of id including all claims for damages by reason of past own use and the use of its successors, assigns and writy or benefit and the Commissioner of Patents and tents on said improvements or resulting therefrom to terein; and the undersigned for me and my legal at without further remuneration, to execute and deliver ons for Letters Patent on said improvements and all nicate to said assignee or its representatives all facts ever requested, to testify in any interferences or other hay become involved, to sign all lawful papers, make id assignee, its successors, assigns and nominees to	
And I do hereby authorize my attorneys to insert on this deed the when known.	filing date and application number of said application	
Feb. 72nd, 2016	Shujie Wu	
Date	Shujie Wu	
Zhi Mi n Wu Witness Zhi Mi n Wu Typed Name of Witness		

*Total of

forms are submitted.

PATENT REEL: 037947 FRAME: 0440

former PTO/SB/15 (8-00) MidSed LDLK&M

ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

9GFZ 3.0F-003

	9GFZ 3.0F-003	
Whereas, I, <u>Cailing Sun</u> of No. 8-17 Rare Earth Avenue, Rare Earth High-tech Industrial Park, Inner-Mongolia, Baotou, P.R. China 014030		
hereafter referred to as assignor, have with others invented certa PREPARATION OF PERMANENT MAGNET MATER	·	
x for which an application for a United States Letters Pate		
Application Number15/060, 188		
for which an application for a United States Letters Pater	***************************************	
for which an International Application was filed on		
, designating the United	d States.	
And		
Whereas, Tianhe (Baotou) Advanced Tech Magnet Co.,		
a corporation of People's Republic of China, herein referred to		
No. 8-17 Rare Earth Avenue; Rare Earth High-tech Industria CHINA	•	
is desirous of acquiring the entire right, title and interest in the sa	ame;	
is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be bome and paid by said assignee.		
And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.		
[b. 2206	Cailbirg Sun Cailing Sun	
Date	Cailing.bun	
<u>Zhi kuju Wu</u> Witness		
<u> </u>		

x *Total of

farmer PTO/S8/15 (8-00) Modified LDLK&M

ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

	9GFZ 3.0F-003	
Whereas, I, <u>Juchang Miao</u> of No. 8-17 Rare Earth Avenue, Rare Earth High-tech Industrial Park, Inner-Mongolia, Baotou, P.R. China 014030 , hereafter referred to as assignor, have with others invented certain new and useful improvements in		
PREPARATION OF PERMANENT MAGNET MATERIA	L	
X for which an application for a United States Letters Paten		
Application Number15/.0.60, 18.8 for which an application for a United States Letters Patent		
for which an International Application was filed on	, as	
, designating the United S	tates.	
And		
Whereas, <u>Tianhe (Baotou) Advanced Tech Magnet Co., L</u> a corporation of People's Republic of China, herein referred to as	3	
No. 8-17 Rare Earth Avenue; Rare Earth High-tech Industrial i	: §	
is desirous of acquiring the entire right, title and interest in the sam	е;	
NOW, THEREFORE, in consideration of the sum of one dollar (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignse of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses inc		
And I do hereby authorize my attorneys to insert on this deed the f when known.	iling date and application number of said application	
Yeb 22nd 2016	Judiang Miao	
Date	Juchang Miao	
<u>Zhi min Wu</u> Witness		
<u>Zhj min Wa</u> Typed Name of Witness		

*Total of X

A AND AND AND AND AND AND AND AND AND AN	Docket Number (Optional)	
ASSIGNMENT OF UTILITY APPLICATION	9GFZ 3.0F-003	
Whereas, I, Ya Chen of		
No. 8-17 Rare Earth Avenue, Rare Earth High-tech Industrial Park, Inner-Mongolia, Baotou, P.R. China 014030		
hereafter referred to as assignor, have with others invented certain new and useful improvements in		
PREPARATION OF PERMANENT MAGNET MATERIAL		
x for which an application for a United States Letters Pate	ent was filed on March 3, 2016	
Application Number 15/060, 188		
for which an application for a United States Letters Patent was executed by me on		
for which an International Application was filed on	, as	
, designating the United States.		
And		
Whereas, Tianhe (Baotou) Advanced Tech Magnet Co., Ltd.		
a corporation of People's Republic of China, herein referred to	\$	
No. 8-17 Rare Earth Avenue; Rare Earth High-tech Industrial Park; Baotou; PEOPLE'S REPUBLIC OF CHINA		
is desirous of acquiring the entire right, title and interest in the same;		
NOW, THEREFORE, in consideration of the sum of one dollar (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignse of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses inc		
And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known. Date Ya Chen Zhi Min Wu Witness Zhi Min Wu Typed Name of Witness		

*Total of 9 forms are submitted.

X

former PTO/SB/15 (8-00) Modified LDLK&M

ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional)	
	9GFZ 3.0F-003	
Whereas, I, Wenjie Yuan of		
No. 8-17 Rare Earth Avenue, Rare Earth High-tech Industrial Park, Inner-Mongolia, Baotou, P.R. China 014030		
hereafter referred to as assignor, have with others invented certain new and useful improvements in		
PREPARATION OF PERMANENT MAGNET MATER	IAL	
x for which an application for a United States Letters Pate	ent was filed on March 3, 2016	
Application Number 15/060, 188		
for which an application for a United States Letters Pater	nt was executed by me on	
for which an International Application was filed on	, as	
, designating the United	States.	
And		
Whereas, Tianhe (Baotou) Advanced Tech Magnet Co.,	Ltd.	
a corporation of People's Republic of China_herein referred to as "assignee" whose mailing address is		
No. 8-17 Rare Earth Avenue; Rare Earth High-tech Industrial Park; Baotou; PEOPLE'S REPUBLIC OF CHINA		
is desirous of acquiring the entire right, title and interest in the same;		
is acknowledged, and other good and valuable consideration, I assignee my entire right, title and interest for the United Statinvention and the aforesaid utility patent application and all capplications and patents applied for or granted therefor in the said invention, including without limitation all applications and p the aforesaid utility application pursuant to any law or treaty, are infringement with the right to sue for and collect the same for its legal representatives, and including the right to claim such price. Trademarks is hereby authorized and requested to issue all pasaid assignee herein, as assignee of the entire interest the representatives, heirs and assignse do hereby agree and covena all original, divisional, continuation, reissue and other applications assignments thereof to said assignee or its assigns, to communication to the undersigned respecting said improvements, when legal proceedings in which any of said applications or patents of all rightful oaths, and to do generally everything necessary to a obtain patent protection for said improvements in all countries, the and paid by said assignee.	es of America and all other countries in and to said original, divisional, continuation, substitute or reissue United States of America and all other countries, for latents for said invention claiming priority or benefit of including all claims for damages by reason of past is own use and the use of its successors, assigns and ority or benefit and the Commissioner of Patents and attents on said improvements or resulting therefrom to herein; and the undersigned for me and my legal int without further remuneration, to execute and deliver ons for Letters Patent on said improvements and all nicate to said assignee or its representatives all facts ever requested, to testify in any interferences or other may become involved, to sign all lawful papers, make it assignee, its successors, assigns and nominees to the expenses incident to said applications to be borne	
And I do hereby authorize my attorneys to insert on this deed the when known.		
Feb 22 nd 2016 Date	Menije Yuan Wenije Yuan	
Date	Wenjie/Yuan	
2hi min Wu Witness 2hi min Wu Typed Name of Witness		
x *Total of 9 forms are submitted.		

PATENT REEL: 037947 FRAME: 0444