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FORM 1-0-1000  
(Rev. 6-93)

OMB No. 0651-0011 (exp. 4/94)

RECORDED

06-17-1998

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

Tab settings



100740831

To the Honorable Commissioner of Patents and Trademarks

original documents or copy thereof.

## 1. Name of conveying party(ies):

Iron Dynamics, Inc.

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

☐ Assignment☐ Merger☒ Security Agreement☐ Change of Name☐ Other

Execution Date: May 11, 1998

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

Name: Mellon Bank, N.A., as Agent

Internal Address: Attn: Loan Administration

Street Address: One Mellon Bank Center

City: Pittsburgh State: PA ZIP: 15258

Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 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:

## A. Patent Application No.(s)

08/841,468

08/880,027

08/964,978

09/054,589

## B. Patent No.(s)

Additional numbers attached? ☐ Yes ☐ No

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

Name: Thomas J. Duman, Esq.

Internal Address: Reed Smith Shaw &amp; McClay

Street Address: 435 Sixth Avenue

City: Pittsburgh State: PA ZIP: 15219

## 6. Total number of applications and patents involved:

4

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

☐ Enclosed☒ Authorized to be charged to deposit account

## 8. Deposit account number:

18-0582

(Attach duplicate copy of this page if paying by deposit account)

06/10/1998 ENROUTE 00000042 160382 00041403

DO NOT USE THIS SPACE

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160.00 CH

## 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.

Thomas J. Duman  
Name of Person Signing

Signature

June 10, 1993

Date

Total number of pages including cover sheet, attachments, and document

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box 503, Washington, DC 20540  
PATENT  
FRAME: 0511

AGREEMENT OF LIEN ON  
PATENTS AND PENDING APPLICATIONS

THIS AGREEMENT, by IRON DYNAMICS, INC., an Indiana corporation having its principal place of business at 4500 County Road 59, Butler, Indiana 46721 (the "Grantor"), in favor of MELLON BANK, N.A., a national banking association with having its principal place of business at One Mellon Bank Center, Pittsburgh, Pennsylvania 15258, as Agent (in such capacity, together with its successors in such capacity, the "Agent").

Recitals:

A. The Grantor has obtained certain Letters Patent of the United States and/or foreign countries and has certain applications for Letters Patent pending in the United States and/or foreign countries, all of which Letters Patent and pending applications are more particularly described hereinafter.

B. The Grantor, the Lenders referred to therein, and the Agent have entered into a Credit Agreement dated as of December 31, 1997 (as amended, modified or supplemented from time to time, the "Credit Agreement"). Pursuant to the Credit Agreement, the Agent has agreed to serve as the agent for the Secured Parties referred to therein (the "Secured Parties," as such term is defined therein) with respect to certain collateral security from time to time for certain obligations (the "Obligations," as such term is defined therein) from time to time to such Secured Parties.

C. The Grantor and the Agent have entered into a Security Agreement dated on or about the date hereof (as amended, modified or supplemented from time to time, the "Security Agreement"). Pursuant to the Security Agreement, the Grantor has granted to and created in favor of the Agent, for the benefit of the Secured Parties, to secure the Obligations, a lien on and security interest in certain property of the Grantor, including the Letters Patent and pending applications referred to above.

NOW, THEREFORE, the Grantor, intending to be legally bound, hereby confirms that it has granted to and created in favor of the Agent, for the benefit of the Secured Parties, pursuant to the Security Agreement, and hereby grants to and creates in favor of the Agent, for the benefit of the Secured Parties, a lien on and security interest in and to the following Letters Patent and pending applications, as security for the full and timely payment and performance of the Obligations:

I. U.S. Letters Patent:

<u>U.S. Patent No.</u>	<u>Issue Date</u>	<u>Inventor</u>	<u>Title</u>
<u>None</u>			

II. U.S. Pending Applications:

<u>Serial No.</u>	<u>Filing Date</u>	<u>Inventor</u>	<u>Title</u>
08/841,468	4/22/97	Larry J. Lehtinen, Assigned to Iron Dynamics, Inc. 12/2/97 Reel 89 01 Frame 595-596	Mixed Bed Iron Reduction Process

08/880,027	6/20/97	Larry J. Lehtinen, Assigned to Iron Dynamics, Inc. 12/2/97 Reel 89 01 Frame 597-598	Low Sulfar Iron Reduction Process Using a Rotary Hearth Furnace
08/964,978	11/5/97	Larry J. Lehtinen, Assigned to Iron Dynamics, Inc. 12/2/97, submitted to PTO for recordal on 12/4/97 (copy of Assignment attached hereto as Exhibit A)	Method for Upgrading Iron Ore Utilizing Multiple Magnetic Separators
09/054,589	4/3/98	Larry J. Lehtinen, Assigned to Iron Dynamics, Inc. 4/7/98 (copy of Assignment attached hereto as Exhibit B, to be submitted for recordal upon receipt of PTO Official Filing Receipt)	Method for Producing Molten Iron From Iron Oxides

III. Foreign Patents:

<u>Country</u>	<u>Patent No.</u>	<u>Issue Date</u>	Corresponding U.S. <u>Patent</u>	<u>Title of Invention</u>
None				

IV. Foreign Pending Applications:

<u>Country</u>	<u>Appln. No.</u>	<u>Filing Date</u>	<u>Inventor</u>	<u>Title of Invention</u>
None				

This Agreement is a Security Document referred to in the Credit Agreement.

WITNESS the due execution hereof as of the 11<sup>th</sup> day of May, 1998.

IRON DYNAMICS, INC.

By 

Name: Larry J. Lehtinen

Title: Vice President

STATE OF Indiana )  
COUNTY OF DeKalb ) SS:

On this, the 11<sup>th</sup> day of May, 1998, before me, a Notary Public, the undersigned officer, personally appeared Larry J. Lehtinen, who acknowledged himself/herself to be Vice President of Iron Dynamics, Inc., an Indiana corporation, and that he/she as Vice President being authorized to do so, executed the foregoing instrument for the purpose therein contained by signing the name of the corporation by himself/herself as Vice President

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

Patricia M. Lewis  
Notary Public

(Notarial Seal)

My Commission Expires: 12/01/99

Patricia M. Lewis  
Notary Public, State of Indiana  
DeKalb County  
My Commission Expires 12/01/99

6122-110/Lehtinen  
1334U

# ASSIGNMENT

WHEREAS, Larry J. Lehtinen, hereinafter referred to as Assignor, has made a new and useful invention in METHOD FOR UPGRADING IRON ORE UTILIZING MULTIPLE MAGNETIC SEPARATORS for which Assignor has made application for Letters Patent of the United States, the application having been filed on November 5, 1997; and

WHEREAS, Iron Dynamics, Inc., hereinafter referred to as Assignee, a corporation of the State of Indiana having a principal place of business at 4500 County Road 59, Butler, Indiana 46721 desires to acquire all of the entire right, title, and interest in, to and under said invention disclosed, described and claimed or intended so to be in said application, and in, to and under said application, and in, to and under any and all Letters Patent, United States and foreign, which may be obtained therefor and thereon;

NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of One Dollar (\$1.00) and other good, valuable and sufficient considerations to Assignor in hand paid, the receipt of which is hereby acknowledged, Assignor has sold, assigned and transferred, and by these presents do sell, assign and transfer unto Assignee, all of the entire right, title, and interest in, to and under said invention disclosed, described and claimed or intended so to be in said application, and in, to and under said application for United States Letters Patent, and any and all other applications thereon and arising therefrom, including any and all divisions and continuations thereof, and any and all patents to be issued and obtained therefor and thereon, United States and foreign, including all reissues and extensions thereof.

Assignor hereby authorizes and requests the firm of Woodard, Erhardt, Naughton, Moriarty & McNett of Bank One Center Tower, 111 Monument Circle, Suite 3700, Indianapolis, Indiana 46204-5137 to insert here in parentheses (Serial No. \_\_\_\_\_) the serial number of said application when officially known, and Assignor hereby authorizes and requests the Honorable Assistant Secretary and Commissioner of Patents and Trademarks to issue said Letters Patent to Assignee, its assigns and legal representatives.

Assignor agrees to sign and execute any and all other papers necessary or desirable for the procurement of Letters Patent on said invention in this and all foreign countries for the use of Assignee.

WITNESS Assignors' hands this 20 day of December, 1997.

Larry J. Lehtinen  
Larry J. Lehtinen

STATE OF Indiana )  
COUNTY OF DeKalb ) SS:

Before me, a Notary Public, in and for said County and State, personally appeared the above-named Assignor, Larry J. Lehtinen, to me personally known, and who executed the foregoing Assignment in my presence and acknowledged the execution thereof as his free and voluntary act and deed for the uses and purposes therein set forth and expressed.

Norma J. Furnish  
Notary Public

Printed: Norma J. Furnish

Resident of Allen County

My Commission Expires:

4-10-2000

5122-109/Lehtinen  
1974U

**ASSIGNMENT**

WHEREAS, Larry J. Lehtinen of 3860 Greenhurst Court, Auburn, Indiana 46706, hereinafter referred to as Assignor, has made a new and useful invention in METHOD FOR PRODUCING MOLTEN IRON FROM IRON OXIDES for which Assignor has made or will make application for Letters Patent of the United States; and

WHEREAS, Iron Dynamics, Inc., hereinafter referred to as Assignee, a corporation of the State of Indiana having a principal place of business at 4500 County Road 59, Butler, Indiana 46721 desires to acquire all of the entire right, title, and interest in, to and under said invention disclosed, described and claimed or intended so to be in said application, and in, to and under said application, and in, to and under any and all Letters Patent, United States and foreign, which may be obtained therefor and thereon;

NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of One Dollar (\$1.00) and other good, valuable and sufficient considerations to Assignor in hand paid, the receipt of which is hereby acknowledged, Assignor has sold, assigned and transferred, and by these presents do sell, assign and transfer unto Assignee, all of the entire right, title, and interest in, to and under said invention disclosed, described and claimed or intended so to be in said application, and in, to and under said application for United States Letters Patent, and any and all other applications thereon and arising therefrom, including any and all divisions and continuations thereof, and any and all patents to be issued and obtained therefor and thereon, United States and foreign, including all reissues and extensions thereof.

Assignor hereby authorizes and requests the firm of Woodard, Einhardt, Naughton, Moriarty & McNett of Bank One Center Tower, 111 Monument Circle, Suite 3700, Indianapolis, Indiana 46204-5137 to insert here in parentheses (Serial No. \_\_\_\_\_) the serial number of said application when officially known, and Assignor hereby authorizes and requests the Honorable Assistant Secretary and Commissioner of Patents and Trademarks to issue said Letters Patent to Assignee, its assigns and legal representatives.

Assignor agrees to sign and execute any and all other papers necessary or desirable for the procurement of Letters Patent on said invention in this and all foreign countries for the use of Assignee.

WITNESS Assignor's hand this 24 day of April, 1995.



Larry J. Lehtinen

Page No. 1 of 2.

Assignment from Larry J. Lehtinen to Iron Dynamics, Inc.

PATENT

REEL: 9240 FRAME: 0516

STATE OF Indiana )  
COUNTY OF DeKalb ) )SS:

Before me, a Notary Public, in and for said County and State, personally appeared the above-named Assignor, Larry J. Lehtinen, to me personally known, and who executed the foregoing Assignment in my presence and acknowledged the execution thereof as his free and voluntary act and deed for the uses and purposes therein set forth and expressed.

Norma J. Furnish  
Notary Public  
Printed: Norma J. Furnish

My Commission Expires:

4-16-2000

Resident of Allen County

Page No. 2 of 2.  
Assignment from Larry J. Lehtinen to Iron Dynamics, Inc.