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original documents or copy thereof.

1. Name of conveying party(ies):

MIDREX INTERNATIONAL B.V. ROTTERDAM,
ZURICH BRANCHAdditional name(s) of conveying
party(ies) attached? _ Yes X No

3. Nature of conveyance:

X Assignment _____ Merger
____ Security Agreement _____ Change of Name
____ Other _____Execution Date: October 29, 20032. Name and address of receiving
party(ies):MIDREX TECHNOLOGIES, INC.
2725 Water Ridge Parkway, Suite 100
Charlotte, North Carolina 28217Additional name(s) & address(es) attached? _ Yes X No4. 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)

10/392,430 (Filed 03/19/03)

B. Patent No.(s)

6,214,087 (Issued 04/10/01)
6,582,491 (Issued 06/24/2003)Additional numbers attached? ____ Yes X No5. Name and address of party to whom
correspondence concerning document should
be mailed:DOUGHERTY, CLEMENTS & HOFER
1901 Roxborough Road, Suite 300
Charlotte, North Carolina 282116. Total number of applications and patents
involved: 37. Total fee (37 CFR 3.41)..... \$ 120.00X Credit Card Payment Form PTO-2038 Enclosed
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**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.**Ralph H. Dougherty

Name of Person Signing

Signature

November 1, 2003

Date

Total number of pages including cover sheet, attachments, and documents: 2Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents and Trademarks, Box Assignments
Washington, DC 20231PATENT
REEL: 014653 FRAME: 0495

ASSIGNMENT

WHEREAS, **MIDREX INTERNATIONAL B.V. ROTTERDAM, ZURICH BRANCH**, a corporation of The Netherlands, having a business address Bahnhofstrasse 94, CH-8001 Zurich, SWITZERLAND, is the owner by assignment of the following United States Patents and Patent Applications; and

WHEREAS, **MIDREX TECHNOLOGIES, INC.**, a corporation of Delaware, having a business address of, 2725 Water Ridge Parkway, Suite 100, Charlotte, North Carolina 28217, USA, is desirous of acquiring the entire right, title, and interest in, to and under the same;

NOW, THEREFORE, in consideration of One Dollar, receipt of which is hereby acknowledged, and other good and valuable consideration, and intending to be legally bound, **MIDREX INTERNATIONAL B.V. ROTTERDAM, ZURICH BRANCH**, (hereinafter Assignor) hereby assigns, transfers and sets over unto **MIDREX TECHNOLOGIES, INC.** (hereinafter Assignee) the entire, full and undivided right, title and interest in, to and under the following Letters Patent and applications for Letter Patent and the inventions disclosed therein, and all foreign counterparts thereof, to the end of the term for which each of said US and foreign Letters Patent is or may be granted or may be reissued, as fully and entirely as the same would have been held and enjoyed by Assignor had this assignment and sale not been made.

<u>US Patent No.</u>	<u>Issue Date</u>	<u>Title</u>
6,214,087 (Serial No. 09/272,276, Filed March 19, 1999)	April 10, 2001	TREATMENT OF IRON OXIDE AGGLOMERATED BEFORE INTRODUCTION INTO FURNACE
6,582,491 (Serial No. 09/888,962, Filed June 25, 2001)	June 24, 2003	METHOD FOR PRODUCING MOLTEN IRON IN DUPLEX FURNACES

<u>Patent Application Serial Number</u>	<u>Filing Date</u>	<u>Title</u>
10/392,430	March 19, 2003	METHOD FOR PRODUCING BENEFICIATED TITANIUM OXIDES

The Assignor agrees to execute all papers necessary in connection with any continuing, divisional, reexamination or reissue applications thereof and also to execute separate assignments in connection with any such US or foreign applications or patents as the Assignee may deem necessary or expedient or essential to its full protection and title in and to the invention hereby transferred.

The Assignor hereby authorizes and requests the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from any division or continuing or reexamination or reissue applications of said Letters patent to the Assignee, as Assignee of the entire interest, and hereby covenants that Assignor has full right to convey the entire interest herein assigned, and that Assignor has not executed and will not execute, any agreement in conflict herewith.

Executed this 29th day of October, 2003.

MIDREX INTERNATIONAL B.V. ROTTERDAM, ZURICH BRANCH


By: Hideaki Tanaka
Director