

07-30-1998

FORM PTO-1595

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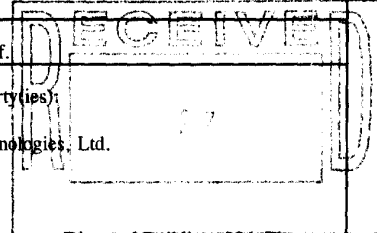
U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

(Rev. 6-93)

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

100780423

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.



MRD 7-21-98

1. Name of conveying party(ies):

Oglebay Norton Corporation

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

Name: Performix Technologies, Ltd.

Internal Address:

Street Address: 1100 Superior Avenue, Diamond Building, 20th Floor

City: Cleveland State: OH ZIP: 44114

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

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other

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

Execution Date: May 15, 1998

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)

B. Patent No.(s)

5,397,379

Additional numbers attached? Yes No

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

Name: Edward G. Greive

Internal Address: Renner, Kenner, Greive, Bobak, Taylor & Weber

Street Address: 1610 First National Tower

City: Akron State: OH ZIP: 44308-1456

6. Total Number of applications and patents involved:

1

7. Total fee (37 CFR 3.41): \$ 40.00

Enclosed

Authorized to be charged to deposit account

8. Deposit Account Number:

18-0987

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

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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.

Edward G. Greive
Name of Person Signing

Edward G. Greive
Signature

July 23, 1998
Date

Total number of pages including cover sheet, attachments, and document: 3

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks
Box Assignments
Washington, D.C. 20231

07/29/1998 TTON11
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40.00 DP

PATENT
REEL: 9342 FRAME: 0221

ASSIGNMENT OF UNITED STATES PATENT

WHEREAS, OGLEBAY NORTON CORPORATION, a corporation of the state of Delaware (ASSIGNOR), whose principal place of business is 1100 Superior Avenue, Cleveland, Ohio 44114, is the sole and exclusive owner, by assignment, recorded on April 18, 1994, as shown by the records at Reel 6942, Frame Nos. 205209, of the following Letters Patent of the United States of America:

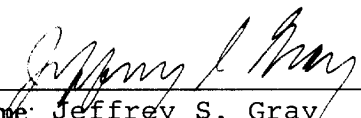
| Patent No. | Granted | Inventor(s) | Title |
|------------|----------------|--|--|
| 5,397,379 | March 14, 1995 | Bruce J. Barker William C. Weber William J. West | PROCESS AND ADDITIVE FOR THE LADLE REFINING OF STEEL |

Performix Technologies,

WHEREAS, LTD, a corporation organized and existing under the laws of Ohio ("ASSIGNEE") and having its principal place of business at 1100 Superior Ave., Diamond Bldg., 20th Floor, Cleveland, OH 44114, is desirous of acquiring the entire right, title and interest in, to and under the said Letters Patent, and the inventions covered thereby:

NOW, THEREFORE, {in consideration of the payment of the sum of One Dollar (\$1.00)} and for good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, ASSIGNOR does hereby sell, assign, transfer and set over to the said ASSIGNEE, its successors and assigns, the entire right, title and interest in and to said Letters Patent and the inventions covered thereby, the same to be held and enjoyed by the same ASSIGNEE, for its own use and enjoyment, and for the use and enjoyment of its successors, assigns or other legal representatives, to the end of the term or terms for which said Letters Patent is granted or reissued, as fully and entirely as the same would have been held and enjoyed by the said ASSIGNOR if this Assignment and sale had not been made, together with all claims for damages by reason of past infringement of said Letters Patent, with the right to sue for, and collect, the same for its own use and behoof, and for the use and behalf of its successors, assigns, and other legal representatives.

OGLEBAY NORTON COMPANY

By: 
 Name: Jeffrey S. Gray
 Title: Vice President-Corporate Development and General Counsel

STATE OF Ohio)
)
COUNTY OF Cuyahoga)

On this 15th day of May, 1998, before me personally appeared Jeffrey S. Gray
to me personally known, and known to me to be the person who signed the foregoing assignment,
and acknowledged the signing of same as his free act and deed.


NOTARY PUBLIC

JENNIFER R. LAWRY, Attorney
Notary Public, State of Ohio
My commission has no expiration date.
Section 147.03 R.C.