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03-10-2004



U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

To the Honorable Assistant Commis

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ached original documents or copy thereof.

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

Mark A. Francis  
Kenneth G. DeRoche

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

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

Name: KENNAMETAL INC.Internal Address: P. O. Box 231Street Address: 1600 Technology WayCity: Latrobe State: PA ZIP: 15650Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other \_\_\_\_\_Execution Date: February 18, 2004 and February 16, 2004,  
respectively

## 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: February 18, 2004 and  
February 16, 2004, respectively

## A. Patent Application No.(s)

10/692,613, filed October 24, 2003

## B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Larry R. MeenanInternal Address: KENNAMETAL INC.P. O. Box 231Street Address: 1600 Technology WayCity: Latrobe State: PA ZIP: 15650Phone: 724-539-5485; Fax: 724-539-59036. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41) .....\$ 40.00☐ Enclosed☒ Authorized to be charged to deposit account

## 8. Deposit account number:

502867

DO NOT USE THIS SPACE

## 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.

Larry R. Meenan  
Name of Person Signing

[Signature]  
Signature

March 1, 2004  
Date

Total number of pages including cover sheet, attachments, and document: 4

03/09/2004 DBYRNE 00000177 502867 10692613

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

Mail Stop Assignments, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450

PATENT  
REEL: 015045 FRAME: 0785

**ASSIGNMENT**

Whereas, Kenneth G. DeRoche, of R. D. 11, Box 699, Greensburg, Pennsylvania 15601, a citizen of the U.S.A., has made application for Letters Patent of the United States, entitled **HELICAL END MILL TYPE CUTTER CONFIGURED TO COMPENSATE FOR RADIAL RUNOUT**, said application having been executed

February 16, 2004(month day year)10/692,613, filed October 24, 2003(serial number, if any)

;

And Whereas, Kennametal Inc., a corporation of the Commonwealth of Pennsylvania, of P. O. Box 231, Latrobe, Pennsylvania 15650, is desirous of acquiring an interest in the same;

Now, therefore, in consideration of One (\$1.00) dollar, and other good and valuable consideration, the receipt of which is hereby acknowledged, he hereby assigns, sells, and sets over unto the said Kennametal Inc., its successors, assigns and legal representatives, the entire right, title and interest in and to said invention for the United States and their territories and all foreign countries, and in and to said Letters Patent, divisions, continuations, continuations-in-part, reissues and extensions thereof in the United States and all foreign countries (including the right to apply for Letters Patent in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), and hereby requests that said Letters Patent issue accordingly. For said consideration said Kenneth G. DeRoche agrees for himself, and for his heirs, executors and administrators, to execute without further consideration all papers that may be necessary to file applications in the United States and foreign countries for said invention and to assign the same to Kennametal Inc. or any assignee acquiring title to said invention, and to execute any other papers that may be needed in connection with filing said applications and securing patents thereon.

In Testimony Thereof, he executes this assignment this 16<sup>th</sup> day of February, 2004.

Kenneth G. DeRoche  
(signature of assignor)

Candy J. DeRoche  
(witness)

Gil R. DeRoche  
(witness)

**ASSIGNMENT**

Whereas, Mark A. Francis, of 6515 Copley Avenue, Solon, Ohio 44139, a citizen of the U.S.A., has made application for Letters Patent of the United States, entitled **HELICAL END MILL TYPE CUTTER CONFIGURED TO COMPENSATE FOR RADIAL RUNOUT**, said application having been executed

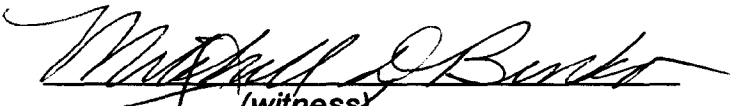
February 18, 2004(month day year)10/692,613, filed October 24, 2003(serial number, if any)

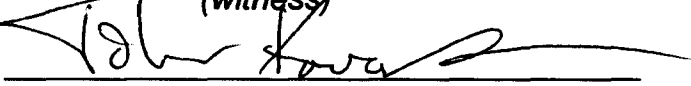
And Whereas, Kennametal Inc., a corporation of the Commonwealth of Pennsylvania, of P. O. Box 231, Latrobe, Pennsylvania 15650, is desirous of acquiring an interest in the same;

Now, therefore, in consideration of One (\$1.00) dollar, and other good and valuable consideration, the receipt of which is hereby acknowledged, he hereby assigns, sells, and sets over unto the said Kennametal Inc., its successors, assigns and legal representatives, the entire right, title and interest in and to said invention for the United States and their territories and all foreign countries, and in and to said Letters Patent, divisions, continuations, continuations-in-part, reissues and extensions thereof in the United States and all foreign countries (including the right to apply for Letters Patent in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), and hereby requests that said Letters Patent issue accordingly. For said consideration said Mark A. Francis agrees for himself, and for his heirs, executors and administrators, to execute without further consideration all papers that may be necessary to file applications in the United States and foreign countries for said invention and to assign the same to Kennametal Inc. or any assignee acquiring title to said invention, and to execute any other papers that may be needed in connection with filing said applications and securing patents thereon.

In Testimony Thereof, he executes this assignment this 18 day of FEBRUARY, 2004.

  
(signature of assignor)

  
(witness)

  
(witness)