

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Willard E. Henderer	11/20/2006
Stephen M. George	01/04/2007
Steven R. Burns	11/21/2006
Mr. Sadayuki Akaki	11/29/2006

RECEIVING PARTY DATA

Name:	Kennametal Inc.
Street Address:	1600 Technology Way, P. O. Box 231
City:	Latrobe
State/Country:	PENNSYLVANIA
Postal Code:	15650-0231

Name:	YAMAWA Manufacturing Ltd.
Street Address:	13-10 Kyobashi 3 Chome, Chuo-Ku
Internal Address:	Nakajima Gold Building
City:	Tokyo
State/Country:	JAPAN
Postal Code:	104-0031

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11582806

CORRESPONDENCE DATA

Fax Number: (724)539-5903

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 724-539-3848

Email: matthew.smith@kennametal.com

Correspondent Name: Matthew W. Smith

PATENT

500203726

REEL: 018721 FRAME: 0906

CH \$40.00 11582806

Address Line 1:	1600 Technology Way, P. O. Box 231
Address Line 4:	Latrobe, PENNSYLVANIA 15650-0231

ATTORNEY DOCKET NUMBER:	K-2400
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NAME OF SUBMITTER:	Matthew W. Smith
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Total Attachments: 4 source=K2400 Assignment 01-08-2007#page1.tif source=K2400 Assignment 01-08-2007#page2.tif source=K2400 Assignment 01-08-2007#page3.tif source=K2400 Assignment 01-08-2007#page4.tif
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ASSIGNMENT

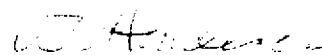
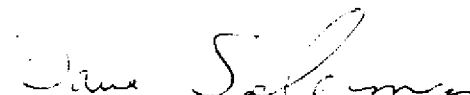
Whereas, Willard E. Henderer, of 745 Magruder Landing, Evans, Georgia 30809, U.S.A., a citizen of the U.S.A., has made application for Letters Patent of the United States, entitled **SPIRAL FLUTE TAP**, said application having been executed

November 20, 2006(month day year)11/582,806, filed October 18, 2006(serial number, if any)

And Whereas, Kennametal Inc., a corporation of the Commonwealth of Pennsylvania, of 1600 Technology Way, P. O. Box 231, Latrobe, Pennsylvania 15650, and YAMAWA Manufacturing Ltd., a Japanese corporation, of Nakajima Gold Building, 13-10 Kyobashi 3 Chome, Chuo-Ku, Tokyo, Japan 104-0031, 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, and YAMAWA Manufacturing Ltd., its successors, assigns and legal representatives, in undivided, equal shares, 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 Willard E. Henderer 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. and YAMAWA Manufacturing Ltd., 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 20 day of Nov, 2006.

(signature of assignor)
(witness)**PATENT****REEL: 018721 FRAME: 0908**

Whereas, Stephen M. George, of 1206 Ventana Court, Evans, Georgia 30809, U.S.A., a citizen of the U.S.A., has made application for Letters Patent of the United States, entitled **SPIRAL FLUTE TAP**, said application having been executed

And Whereas, Kennametal Inc., a corporation of the Commonwealth of Pennsylvania, of 1600 Technology Way, P. O. Box 231, Latrobe, Pennsylvania 15650, and YAMAWA Manufacturing Ltd., a Japanese corporation, of Nakajima Gold Building, 13-10 Kyobashi 3 Chome, Chuo-Ku, Tokyo, Japan 104-0031, is desirous of acquiring an interest in the same;

In Testimony Thereof, he executes this assignment this 4th day of January, 2008. 2007

(witness)

ASSIGNMENT

Whereas, Steven R. Burns, of 1822 Whitehill Road, East Ryegate, Vermont 05042, U.S.A., a citizen of the U.S.A., has made application for Letters Patent of the United States, entitled **SPIRAL FLUTE TAP**, said application having been executed

November 21, 2006 11/582,806, filed October 18, 2006;
(month day year) (serial number, if any)

And Whereas, Kennametal Inc., a corporation of the Commonwealth of Pennsylvania, of 1600 Technology Way, P. O. Box 231, Latrobe, Pennsylvania 15650, and YAMAWA Manufacturing Ltd., a Japanese corporation, of Nakajima Gold Building, 13-10 Kyobashi 3 Chome, Chuo-Ku, Tokyo, Japan 104-0031, 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, and YAMAWA Manufacturing Ltd., its successors, assigns and legal representatives, in undivided, equal shares, 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 Steven R. Burns 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. and YAMAWA Manufacturing Ltd., 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 21st day of November, 2006.

[Signature]
(signature of assignor)

[Signature]
(witness)

[Signature]
(witness)

ASSIGNMENT

Whereas, Mr. Sadayuki Akaki, of Yamawa Mfg. Co., Ltd., Fukushima Office, 3-3 Sasakinohara Sasakino Fukushima-shi, Fukushima-ken 960,8057, Japan, a citizen of Japan, has made application for Letters Patent of the United States, entitled **SPIRAL FLUTE TAP**, said application having been executed November 29, 2006 11/582,806, filed October 18, 2006;
(month day year) (serial number, if any)

And Whereas, Kennametal Inc., a corporation of the Commonwealth of Pennsylvania, of 1600 Technology Way, P. O. Box 231, Latrobe, Pennsylvania 15650, and YAMAWA Manufacturing Ltd., a Japanese corporation, of Nakajima Gold Building, 13-10 Kyobashi 3 Chome, Chuo-Ku, Tokyo, Japan 104-0031, 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, and YAMAWA Manufacturing Ltd., its successors, assigns and legal representatives, in undivided, equal shares, 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 Mr. Sadayuki Akaki 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. and YAMAWA Manufacturing Ltd., 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 Whereof, he executes this assignment this 29 day of November, 2006.

Sadayuki Akaki

(signature of assignor)

Tsato

(witness)

M. Mitsu

(witness)

PATENT

RECORDED: 01/08/2007

REEL: 018721 FRAME: 0911