

## PATENT ASSIGNMENT COVER SHEET

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<b>SEQUENCE:</b>	2	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
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<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	Patent Number:	9227253
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<b>DATE SIGNED:</b>	04/21/2016	
<b>Total Attachments: 5</b>		
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For: ☒ U.S. and/or ☒ Foreign Rights  
For: ☐ U.S. Application or  
☐ U.S. Provisional Application  
For: ☒ **U.S. PATENT**  
For: ☐ PCT Application  
By: ☒ **Inventor(s)** or ☐ Present Owner

**ASSIGNMENT OF PATENT**

**THIS ASSIGNMENT OF PATENT** is made effective as of the 5<sup>th</sup> day  
of January, 2016

In consideration of the payment by ASSIGNEE to ASSIGNOR of the  
sum of TEN US (US \$10.00) DOLLARS, and for other good and  
valuable consideration, the receipt of which is hereby  
acknowledged,

**ASSIGNOR:**

Inventor(s) or person(s) or  
entit(ies) who own the invention

**LUKE TYLER SWIFT**

*type or print name of ASSIGNOR*

1720 Central Avenue, South  
*Address*

KENT, Washington 98032

U.S.

*Nationality*

(if assignment is by person or entity to whom invention was previously  
assigned and this was recorded in PTO, add the following):

Recorded on \_\_\_\_\_ Reel \_\_\_\_\_ Frame: \_\_\_\_\_

**HEREBY SELLS, ASSIGNS AND TRANSFERS TO**

**ASSIGNEE:**

**NEW TECH CUTTING TOOLS, INC.**

*type or print name of ASSIGNEE*

1720 Central Avenue, South  
*Address*

KENT, Washington 98032  
*a Washington Corporation*

and the successors, assigns and legal representatives of the  
ASSIGNEE,

☒ the entire right, title and interest

in U.S. Patent No.: 9,227,253 B1 issued JANUARY 5, 2016, (the face page of which is attached hereto as **Exhibit 1**), and in and to any and all improvements which are disclosed therein, for the invention entitled:

**ROTARY CUTTER FOR MACHINING MATERIALS**

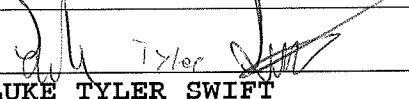
**Name of Inventors:** Steven M. SWIFT and Luke Tyler SWIFT

(1) ASSIGNOR hereby warrants, represents, and covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.

(2) This Assignment includes all of the ASSIGNOR'S right to all income, royalties, damages, and payments now or hereafter due and payable, and in and to all causes of action, either in law or in equity, and the right to sue, counterclaim and recover for past, present, and future infringement of the rights assigned under this Assignment, as fully and entirely as the same would have been held and enjoyed by the ASSIGNOR if this sale and assignment had not been made.

(3) ASSIGNOR further covenants that ASSIGNOR will, upon ASSIGNEE'S request, promptly provide all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR, and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all proper papers, instruments, or affidavits required (1) to maintain and enforce said Letters Patent, (2) to apply for, obtain, issue, and maintain any continuation, division, renewal, reissue, re-examination, or substitute thereof, and (3) maintain and enforce any Letters Patent on any reissue or re-examination thereof, or which may otherwise be necessary or desirable to carry out the purposes hereof.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the date shown below.

Date: <u>04/20/2016</u>	 <b>LUKE TYLER SWIFT</b> Signature of ASSIGNOR
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☒ Notarization or Legalization Page added.

**INSTRUMENT: ASSIGNMENT OF U.S. PATENT NO. 9,227,253 B1**  
**ISSUE DATE: JANUARY 5, 2016**

STATE OF WASHINGTON     )  
  ) ss.  
COUNTY OF KING         )

Before me this 20<sup>th</sup> day of April, 2016, personally appeared LUKE TYLER SWIFT to me personally known to be the person who is described in and who executed the above instrument, and acknowledged to me that he executed the same of his own free will for the purpose therein set forth.

Dated: APRIL 20, 2016.

(Seal or Stamp)

Rhonda Goodloe

Notary Signature

Rhonda Goodloe

Print Name

Notary Public in and for the State of Washington,  
residing at Kent, WA.  
My appointment expires 01/17/19.

\*\*\*\*\*



ACKNOWLEDGED AND ACCEPTED:

NEW TECH CUTTING TOOLS, INC.  
A Washington corporation

Steven M. Swift  
SIGNATURE

By: STEVEN M. Swift

Its: President

Date: 4/20/2016

STATE OF WASHINGTON    )  
  ) ss.  
COUNTY OF KING        )

I certify that I know or have satisfactory evidence that Steven Swift is the person who appeared before me, and said person acknowledged that he signed this instrument, on oath stated that he was authorized to execute the instrument and acknowledged it as the President of **NEW TECH CUTTING TOOLS, INC.**, to be the free and voluntary act of such party, for the uses and purposes mentioned in the instrument.

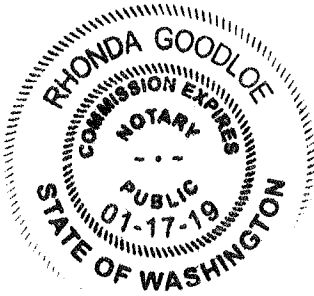
Dated: 4/20/16

(Seal or Stamp)

Rhonda Goodloe  
Notary Signature

Rhonda Goodloe  
Print Name

Notary Public in and for the State of Washington,  
residing at Kent, WA  
My appointment expires 01/17/19.



# EXHIBIT 1



US009227253B1

(12) **United States Patent**  
**Swift et al.**

(10) **Patent No.:** **US 9,227,253 B1**  
(45) **Date of Patent:** **Jan. 5, 2016**

(54) **ROTARY CUTTER FOR MACHINING MATERIALS**

(76) Inventors: **Steven M. Swift**, Kent, WA (US); **Luke Tyler Swift**, Kent, WA (US)

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 1112 days.

(21) Appl. No.: **12/750,701**

(22) Filed: **Mar. 30, 2010**

## Related U.S. Application Data

(60) Provisional application No. 61/164,902, filed on Mar. 30, 2009.

(51) **Int. Cl.**  
**B23C 5/00** (2006.01)  
**B23C 5/10** (2006.01)

(52) **U.S. Cl.**  
CPC .... **B23C 5/00** (2013.01); **B23C 5/10** (2013.01)

(58) **Field of Classification Search**  
CPC .. B23C 5/10; B23C 2210/08; B23C 2210/088  
USPC ..... 407/53, 54  
See application file for complete search history.

## References Cited

### U.S. PATENT DOCUMENTS

2,129,417 A \* 9/1938 Gase ..... 407/54  
4,810,136 A \* 3/1989 Paige ..... 407/54

5,322,394 A \* 6/1994 Okanishi et al. .... 407/32  
6,435,780 B1 \* 8/2002 Flynn ..... 407/53  
6,899,494 B2 \* 5/2005 Walrath ..... 407/54  
6,997,651 B2 \* 2/2006 Kawai et al. .... 407/53  
7,451,013 B2 11/2008 Coleman et al.  
8,560,113 B2 10/2013 Diehl et al.  
8,657,538 B2 \* 2/2014 Pan et al. .... 407/56

\* cited by examiner

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## (57) ABSTRACT

A rotary cutting tool. The tool has a body with outside diameter (OD), and outer surface, and a longitudinal axis, a plurality of flutes, helical in some embodiments. Flutes include a narrow leading edge land portion with circular segment profile and having flute cutting edge portions along a substantially uniform circumferential location, with an eccentric relief margin rotationally rearward of the narrow leading edge land portions. Face portions are provided with face cutting edge portions, and with a first dish portion adjacent each of the cutting edge portions sloping inwardly and downwardly generally toward a central longitudinal axis at a first dish angle  $\alpha$  ( $\alpha$ ). Corner blend portions extend from flute cutting edge portions to the face cutting edge portions. Corner blend portions are provided in a variety of profiles, including an embodiment wherein the profile of the corner blend portions are truncated before the segment of curvature becomes tangential to the face cutting edge portions. Large core diameters of cutting tools are provided, which gives high strength at when working with axial depths of cut of about three times outside tool diameter or less.

**58 Claims, 21 Drawing Sheets**

