

SCORE Placeholder Sheet for IFW Content

Application Number: 15786270

Document Date: 07/29/2021

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- Drawing

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UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

Page 1 of 3

PATENT NO. : 10,389,568
 APPLICATION NO.: 15/786,270
 ISSUE DATE : August 20, 2019
 INVENTOR(S) : Steve Shattil

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 14, line 50-51:

Please amend -- $f(\phi) = \{e^{j\phi^1}, e^{j\phi^2}, \dots, e^{j\phi^N}\} = \{e^{j0}, e^{j2\pi k/N}, \dots, e^{j(N-1) \cdot 2\pi k/N}\}$ --
 to read -- $f(\phi) = \{e^{j\phi^1}, e^{j\phi^2}, \dots, e^{j\phi^N}\} = \{e^{j0}, e^{j2\pi k/N}, \dots, e^{j(N-1) \cdot 2\pi k/N}\}$ --

Col. 14, line 60:

Please amend -- $\{t_1, t_2, \dots, t_{N-1}\} = \{1/f_s, 2/f_s, \dots, (N-1)/f_s\}$, --
 to read -- $\{t_1, t_2, \dots, t_{N-1}\} = \{1/f_s, 2/f_s, \dots, (N-1)/f_s\}$, --

Col. 14, line 64:

Please amend -- $\{t_1, t_2, \dots, t_{N-1}\} = \{1/f_s, 2/f_s, \dots, (N-1)/f_s\}$, --
 to read -- $\{t'_1, t'_2, \dots, t'_{N-1}\} = 1/(2Nf_s) + \{1/f_s, 2/f_s, \dots, (N-1)/f_s\}$, --

Col. 15, line 6-7:

Please amend -- $f_i(\phi) = \{e^{j\phi^1}, e^{j\phi^2}, \dots, e^{j\phi^N}\} = \{e^{j0}, e^{j2\pi k/N}, \dots, e^{j(N-1) \cdot 2\pi k/N}\}$ --
 to read -- $f_i(\phi) = \{e^{j\phi^1}, e^{j\phi^2}, \dots, e^{j\phi^N}\} = \{e^{j0}, e^{j2\pi k/N}, \dots, e^{j(N-1) \cdot 2\pi k/N}\}$ --

Col. 15, line 10-11:

Please amend -- $f_i(\phi) = \{e^{j\phi^1}, e^{j\phi^2}, \dots, e^{j\phi^N}\} = \{e^{j(m+\Delta\phi)}, e^{j(2\pi k/N + \Delta\phi)}, \dots, e^{j((N-1) \cdot 2\pi k/N + \Delta\phi)}\}$ --
 to read -- $f_i(\phi) = \{e^{j\phi^1}, e^{j\phi^2}, \dots, e^{j\phi^N}\} = \{e^{j(m+\Delta\phi)}, e^{j(2\pi k/N + \Delta\phi)}, \dots, e^{j((N-1) \cdot 2\pi k/N + \Delta\phi)}\}$ --

MAILING ADDRESS OF SENDER (Please do not use Customer Number below):

Steven J Shattil
 PO Box 17355, Boulder, CO 80308

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
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UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

Page 2 of 3

PATENT NO. : 10,389,568
 APPLICATION NO.: 15/786,270
 ISSUE DATE : August 20, 2019
 INVENTOR(S) : Steve Shattil

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 16, line 19:

Please amend -- offsets ϕ_k used --
 to read -- offsets ϕ_{kn} used --

Col. 18, line 28:

Please amend -- $\phi' = 2\phi_{ol}/f_s M$ --
 to read -- $\phi' = 2\pi f_{ol}/f_s M$ --

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 PO Box 17355, Boulder, CO 80308

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**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**Page 3 of 3

PATENT NO. : 10,389,568
APPLICATION NO.: 15/786,270
ISSUE DATE : August 20, 2019
INVENTOR(S) : Steve Shattil

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Drawings:

Please amend FIG. 7 as indicated in the attached clean and marked-up versions of Drawing Sheet 7.

MAILING ADDRESS OF SENDER (Please do not use Customer Number below):

Steven J Shattil
PO Box 17355, Boulder, CO 80308

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Letters Patent of: Steve Shattil

Appl. No. 15/786,270

Patent No. 10,389,568

Issued 8/20/2019

For: SINGLE CARRIER FREQUENCY DIVISION MULTIPLE ACCESS BASEBAND
SIGNAL GENERATION

REQUEST FOR CERTIFICATE OF CORRECTION PURSUANT TO 37 CFR 1.323

Attention: Certificate of Corrections Branch

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Dear Sir:

Upon reviewing the above-identified patent, Patentee noted typographical errors which should be corrected.

In the Drawings:

In FIG. 7, in the exponential of each matrix element, please amend the denominator “(N-1)” to read “N”, as shown in the attached Replacement Drawing sheet 7 (clean and marked-up versions).

In the Specification:

Col. 14, line 50-51: Please amend -- $f(\phi) = \{e^{j\phi^1}, e^{j\phi^2}, \dots, e^{j\phi^N}\} = \{e^{j0}, e^{j2\pi k/N}, \dots, e^{j(N-1) \cdot 2\pi k/N}\}$ --
to read -- $f(\phi) = \{e^{j\phi^1}, e^{j\phi^2}, \dots, e^{j\phi^N}\} = \{e^{j0}, e^{j2\pi k/N}, \dots, e^{j(N-1) \cdot 2\pi k/N}\}$ --

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Col. 14, line 64: Please amend -- $\{t_1, t_2, \dots, t_{N-1}\} = \{1/f_s, 2/f_s, \dots, (N-1)/f_s\}$. --
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Col. 15, line 6-7: Please amend -- $f_1(\phi) = \{e^{j\theta_1}, e^{j\theta_2}, \dots, e^{j\theta_N}\} = \{e^{j0}, e^{j2\pi k/N}, \dots, e^{j(N-1) \cdot 2\pi k/N}\}$ --
to read -- $f_1(\phi) = \{e^{j\phi_1}, e^{j\phi_2}, \dots, e^{j\phi_N}\} = \{e^{j0}, e^{j2\pi k/N}, \dots, e^{j(N-1) \cdot 2\pi k/N}\}$ --

Col. 15, line 10-11: Please amend -- $f_2(\phi) = \{e^{j\theta'_1}, e^{j\theta'_2}, \dots, e^{j\theta'_N}\} = \{e^{j(0+\Delta\phi)}, e^{j(2\pi k/N+\Delta\phi)}, \dots, e^{j((N-1) \cdot 2\pi k/N+\Delta\phi)}\}$ --
to read -- $f_2(\phi) = \{e^{j\phi'_1}, e^{j\phi'_2}, \dots, e^{j\phi'_N}\} = \{e^{j(0+\Delta\phi)}, e^{j(2\pi k/N+\Delta\phi)}, \dots, e^{j((N-1) \cdot 2\pi k/N+\Delta\phi)}\}$ --

Col. 16, line 19: Please amend -- offsets ϕ_k used --
to read -- offsets ϕ_{kn} used --

Col. 18, line 28: Please amend -- $\phi' = 2\phi f_o/f_s M$ --
to read -- $\phi' = 2\pi f_o/f_s M$ --

The errors were found in the application as filed by applicant. The fee set forth in 37 CFR 1.20(a) accompanies this letter.

The errors now sought to be corrected are inadvertent typographical errors of which does not involve new matter or require reexamination.

Transmitted herewith is a proposed Certificate of Correction effecting such amendment. Patentee respectfully solicits the granting of the requested Certificate of Correction.

Respectfully submitted,

/Steven J Shattil/

Steven J. Shattil, Reg. No. 40,170
P.O. Box 17355
Boulder, CO 80308-0355
(720) 234-4351

Amended Clean Drawing Sheet

	$s_0()$	$s_1()$	$s_2()$	$s_{N-1}()$
$w_1 = \sum():$	$e^{i2\pi(0)(0)/N}$	$e^{i2\pi(1)(0)/N}$	$e^{i2\pi(2)(0)/N}$	$e^{i2\pi(N-1)(0)/N}$
$w_2 = \sum():$	$e^{i2\pi(0)(1)/N}$	$e^{i2\pi(1)(1)/N}$	$e^{i2\pi(2)(1)/N}$	$e^{i2\pi(N-1)(1)/N}$
$w_3 = \sum():$	$e^{i2\pi(0)(2)/N}$	$e^{i2\pi(1)(2)/N}$	$e^{i2\pi(2)(2)/N}$	$e^{i2\pi(N-1)(2)/N}$
$w_N = \sum():$	$e^{i2\pi(0)(N-1)/N}$	$e^{i2\pi(1)(N-1)/N}$	$e^{i2\pi(2)(N-1)/N}$	$e^{i2\pi(N-1)(N-1)/N}$

FIG. 7

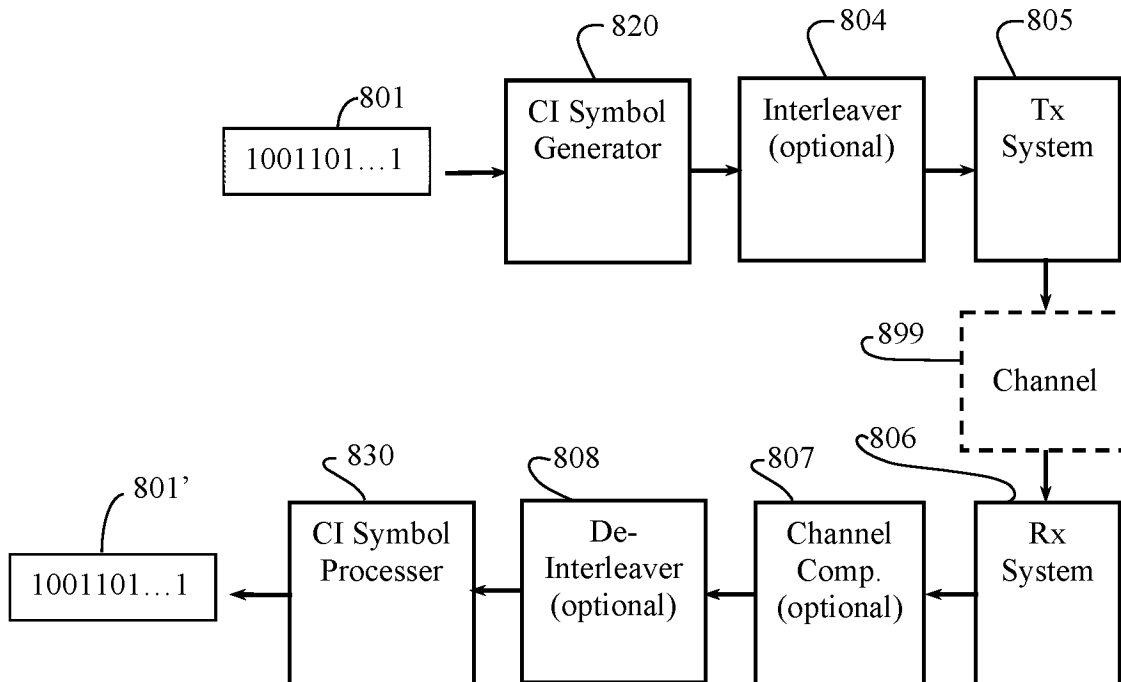


FIG. 8A

	$s_0()$	$s_1()$	$s_2()$	$s_{N-1}()$
$w_1 = \sum():$	$e^{i2\pi(0)(0)/(N-1)}$	$e^{i2\pi(1)(0)/(N-1)}$	$e^{i2\pi(2)(0)/(N-1)}$	$e^{i2\pi(N-1)(0)/(N-1)}$
$w_2 = \sum():$	$e^{i2\pi(0)(1)/(N-1)}$	$e^{i2\pi(1)(1)/(N-1)}$	$e^{i2\pi(2)(1)/(N-1)}$	$e^{i2\pi(N-1)(1)/(N-1)}$
$w_3 = \sum():$	$e^{i2\pi(0)(2)/(N-1)}$	$e^{i2\pi(1)(2)/(N-1)}$	$e^{i2\pi(2)(2)/(N-1)}$	$e^{i2\pi(N-1)(2)/(N-1)}$
$w_N = \sum():$	$e^{i2\pi(0)(N-1)/(N-1)}$	$e^{i2\pi(1)(N-1)/(N-1)}$	$e^{i2\pi(2)(N-1)/(N-1)}$	$e^{i2\pi(N-1)(N-1)/(N-1)}$

701

703

FIG. 7 (Amended)

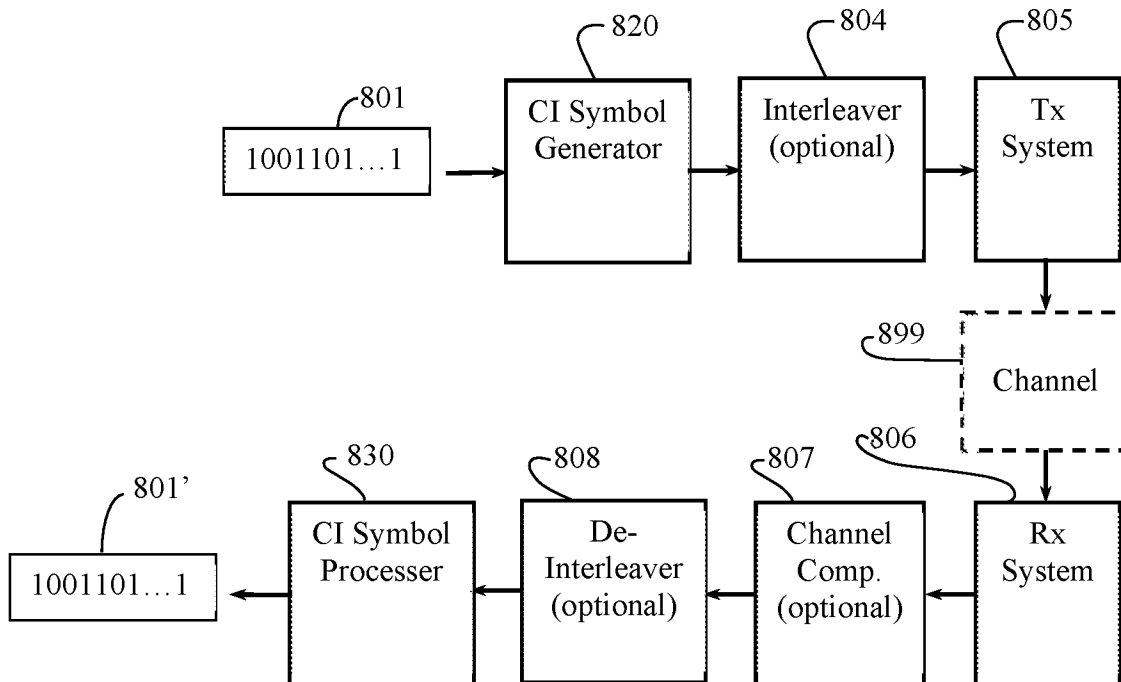


FIG. 8A

Electronic Patent Application Fee Transmittal				
Application Number:		15786270		
Filing Date:		17-Oct-2017		
Title of Invention:		SINGLE CARRIER FREQUENCY DIVISION MULTIPLE ACCESS BASEBAND SIGNAL GENERATION		
First Named Inventor/Applicant Name:		Steve Shattil		
Filer:		Steven J Shattil		
Attorney Docket Number:		CBF-000.C4		
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
CERTIFICATE OF CORRECTION	2811	1	160	160

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				160

Electronic Acknowledgement Receipt

EFS ID:	43379315
Application Number:	15786270
International Application Number:	
Confirmation Number:	5080
Title of Invention:	SINGLE CARRIER FREQUENCY DIVISION MULTIPLE ACCESS BASEBAND SIGNAL GENERATION
First Named Inventor/Applicant Name:	Steve Shattil
Customer Number:	74284
Filer:	Steven J Shattil
Filer Authorized By:	
Attorney Docket Number:	CBF-000.C4
Receipt Date:	29-JUL-2021
Filing Date:	17-OCT-2017
Time Stamp:	14:53:33
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	EFT
Payment was successfully received in RAM	\$ 160
RAM confirmation Number	E20217SE53580600
Deposit Account	
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Certificate of Correction	sb0044_CBF000C4_p1.pdf	208605	no	2
			a6998c437228b39725f28e02e17577e1dc1206fd		
Warnings:					
Information:					
2	Request for Certificate of Correction	sb0044_CBF000C4_p2.pdf	169094	no	2
			1993adccb2a198b454c4d7ddf72a90a1fe8bd376		
Warnings:					
Information:					
3	Request for Certificate of Correction	sb0044_CBF000C4_p3.pdf	174984	no	2
			5b1537d413796dca9da30c4d417c708cc2535c14		
Warnings:					
Information:					
4	Transmittal Letter	CBF000C4_CertificateofCorrectionTransmittal.pdf	103360	no	3
			30507a5ef57b81c76eab52cbe0cc0a1adf12dbb9		
Warnings:					
Information:					
5	Drawings-only black and white line drawings	FIG07clean.pdf	118990	no	1
			4eaec3b34a42eca9566ff920589d24743356c4a3		
Warnings:					
Information:					
6	Drawings-other than black and white line drawings	FIG07markedup.pdf	173939	no	1
			8848a85e23f77c36d3f38e7cb7cf97c80f4b53c3		
Warnings:					
Information:					

7	Fee Worksheet (SB06)	fee-info.pdf	37682	no	2
			c57ee14544998de559dd0202c69ec2be67c bf7b0		

Warnings:

Information:

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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.