| Durish T Rometin CC 961511 March 111 - +1 (0007-2012) |
|---|
| I, Daniel J. Bernstein , of CS, 851 S. Magan (M/C 151), Chicago, IL 60607-7053 , do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as Boing Binary Goges Codes/Claric McHisp is my own original work, or if submitted jointly with others, is the original work of the joint submitters. I further declare that (check one): |
| If do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as Bring Birary Gupa Coles (Classic McDiece OR (check one or both of the following): |
| □ to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as may be covered by the following U.S. and/or foreign patents: |
| ☐ I do hereby declare that, to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: |
| I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability). |
| I acknowledge that NIST will announce any selected cryptosystem(s) and proceed to publish the draft standards for public comment. |
| I do hereby agree to provide the statements required by Sections 2.D.2 and 2.D.3, below, for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process. |
| I acknowledge that, during the post-quantum algorithm evaluation process, NIST may remove my cryptosystem from consideration for standardization. If my cryptosystem (or the derived cryptosystem) is removed from consideration for standardization or withdrawn from consideration by all submitter(s) and owner(s), I understand that rights granted and assurances-made under Sections 2.D.1, 2.D.2 and 2.D.3, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate. |
| Signed: D. J. Reunton |
| Title: Research Professor |
| Date: 14 March 2018 |
| Place: Eindhoven |

I, Edoardo Persichetti, of Florida Atlantic University, Department of Mathematical Sciences, 777 Glades Rd, Boca Raton 33431 FL, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as Classic McEliece, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

| I furthe | y decla | re that (check one): | | |
|-----------|--|---|--|--|
| \forall | I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as Classic McEliece; OR (check one or both of the following): | | | |
| | | to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as (print name of cryptosystem), may be covered by the following U.S. and/or foreign patents: (describe and enumerate or state "none" if applicable) ; | | |
| | | I do hereby declare that, to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: (describe and enumerate or state "none" if applicable) | | |

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consideration by all submitter(s) and owner(s), I understand that rights granted and assurances made under Sections 2.D.1, 2.D.2 and 2.D.3 of the Call For Proposals, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed.

Title: Assistant Professor

Date: 4/16/18

Place: Boca Raton, FL

| Statement by Each Submitter Graduate School of Engineering Osaka University |
|---|
| |
| I, Tung Chou, of 1-1 Yamedocka, 565-0871 Ozaka Rafecture, Japan, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as Boring Binary Goppa Codes/Classic McEliece, is my own original work, or if submitted jointly with others, is the original work of the joint submitters. I further declare that (check one): |
| ☑ I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as Boring Binary Goppa Codes/Classic McEliece OR (check one or both of the following): |
| □ to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as may be covered by the following U.S. and/or foreign patents: |
| ☐ I do hereby declare that, to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: |
| I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability). |
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| Signed: BA |
| Title: Assistant Professor |
| Date: 22 March, 2018 |
| Place: Osafa, Japan |

| I, TALY LANGE, of TW/e, Patrice 512 5600MB ENDMONEN Medo hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as Boring Binary Goppa Codes/Classic McEliece, is my own original work, or if submitted jointly with others, is the original work of the joint submitters. I further declare that (check one): |
|---|
| I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as Boring Binary Goppa Codes/Classic McEliece OR (check one or both of the following): |
| □ to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as may be covered by the following U.S. and/or foreign patents: □ I do hereby declare that, to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: |
| I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability). |
| I acknowledge that NIST will announce any selected $cryptosystem(s)$ and proceed to publish the draft $standards$ for $public$ $comment$. |
| I do hereby agree to provide the statements required by Sections 2.D.2 and 2.D.3, below, for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process. |
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| Signed: Tops Cong |
| Date: 14 17AR 2018 |
| Place: ETNDHOVEN |

| | | | | (no affiliation), Sachsenweg 28A, 22455 Hamburg |
|---------|-------------------------|-----------------------------------|-----------------------------------|--|
| | | | | the cryptosystem, reference implementation, or omitted, known as Boring Binary Goppa |
| - | , is my nt submitter | _ | work, or ij | f submitted jointly with others, is the original work of |
| I furth | er declare th | nat (check one | e): | |
| × | which may implement | ocover the cry ations that I h | yptosystem have subm | hold any patent or patent application with a claim not |
| | im _i | plementation, (print nam | or optimise of crypto eatents: | ge, the practice of the cryptosystem, reference zed implementations that I have submitted, known as osystem), may be covered by the following U.S (describe and enumerate or state "none" if |
| | and cry | d/or foreign p ptosystem, re | patent appl eference in | o the best of my knowledge, the following pending U.S. lications may cover the practice of my submitted applementation or optimized implementations: or state "none" if applicable) |

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

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consideration by all submitter(s) and owner(s), I understand that rights granted and assurances made under Sections 2.D.1, 2.D.2 and 2.D.3 of the Call For Proposals, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed: Lea Ella

Title: Boring Binary Goppa Codes

Date: November 29, 2017 Place: Moscow, Russia

I, RAFAEL MISOCZKI, of Intel Corporation, 2111 NE 25th Avenue, Hillsboro, Oregon, 97124, USA, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as Boring Binary Goppa Codes, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

✓ I do not hold and do not intend to hold any patent or patent application with a claim

I further declare that (check one):

| implem | nay cover the cryptosystem, reference implementation, or optimized tentations that I have submitted, known as Boring Binary Goppa Codes ; OR |
|--------|---|
| (check | one or both of the following): |
| | to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as (print name of cryptosystem), may be covered by the following U.S. and/or foreign patents: (describe and enumerate or state "none" if applicable) ; |
| | I do hereby declare that, to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: (describe and enumerate or state "none" if applicable) |

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

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I acknowledge that, during the post-quantum algorithm evaluation process, NIST may remove my cryptosystem from consideration for standardization. If my cryptosystem (or the derived cryptosystem) is removed from consideration for standardization or withdrawn from consideration by all submitter(s) and owner(s), I understand that rights granted and assurances

made under Sections 2.D.1, 2.D.2 and 2.D.3, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Robord Munf.

Signed: Rafael Misoczki

Title: Dr.

Date: Nov. 28, 2017

Place: Hillsboro, Oregon, USA

I, <u>Ruben Niederhagen</u>, of <u>Fraunhofer Institute for Secure Information Technology, Rheinstraße 75, 64295 Darmstadt, Germany</u>, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>Boring Binary Goppa Codes</u>, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

| Ι | further | declare | that . | (check | one |): |
|---|-----------|--------------|--------|----------|------|-----|
| | 1000 0000 | ore erective | 011000 | 10.000.0 | 0,,0 | / " |

| the cryptosystem, reference implementation, or optimized implementations that I have ted, known as Boring Binary Goppa Codes ; OR (check one or both of the following): |
|--|
| to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as (print name of cryptosystem), may be covered by the following U.S. and/or foreign patents: (describe and enumerate or state "none" if applicable); |
| I do hereby declare that, to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: (describe and enumerate or state "none" if applicable) |

I do not hold and do not intend to hold any patent or patent application with a claim which may

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Signed:

Date: November 27, 2017

Place: Darmstadt

I, Edoardo Persichetti, of Florida Atlantic University, Department of Mathematical Sciences, 777 Glades Rd, Boca Raton 33431 FL, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as Boring Binary Goppa Codes, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

☑ I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized

I further declare that (check one):

| | nentations that I have submitted, known as Boring Binary Goppa Codes; OR cone or both of the following): |
|---|---|
| | to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as (print name of cryptosystem), may be covered by the following U.S. and/or foreign patents: (describe and enumerate or state "none" if |
| П | applicable); I do hereby declare that, to the best of my knowledge, the following pending U.S |
| | and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: (describe and enumerate or state "none" if applicable) |

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Signed:

Title: Assistant Professor

Date: 11/27/17 Place: Boca Raton

| cryptosy: known a: | stem, r s | Peters, of (private individual) , do hereby declare that the reference implementation, or optimized implementations that I have submitted, Classic McEliece, is my own original work, or if submitted jointly with riginal work of the joint submitters. |
|-----------------------|-----------------|--|
| I further | decla | re that (check one): |
| 1 | which implen | ot hold and do not intend to hold any patent or patent application with a claim may cover the cryptosystem, reference implementation, or optimized nentations that I have submitted, known as Classic McEliece; OR one or both of the following): |
| | • | to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as (print name of cryptosystem), may be covered by the following U.S. and/or foreign patents: (describe and enumerate or state "none" if applicable); |
| | • | I do hereby declare that, to the best of my knowledge, the following pending U.S and/or foreign patent applications may cover the practice of my submitted |

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(describe and enumerate or state "none" if applicable) _

cryptosystem, reference implementation or optimized implementations:

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Ch Pelis

Signed: Dr. Christiane Peters, christiane.pascale.peters@gmail.com

Title:

Date: 30-Nov-2017

Place: Leuven, Belgium

| I, refer Schwabe of Radboud University, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as Boring Binary Goppa Codes/Classic McEliece, is my own original work, or if submitted jointly with others, is the original work of the joint submitters. I further declare that (check one): If do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as Boring Binary Goppa Codes/Classic McEliece OR (check one or both of the following): to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as may be covered by the following U.S. and/or foreign patents: I do hereby declare that, to the best of my knowledge, the following pending U.S. and/or |
|---|
| foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: |
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| Signed: Links |
| Title: Assistant Poksser |
| Date: April 6, 2018 |
| Place: for/ landedale, USA |

I. Nicolas Sendrier, of Inria de Paris, 2 rue Simone Iff, CS 42112, 75589 Paris Cedex 12, France, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as Boring Binary Goppa Codes, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

• I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as Boring Binary Goppa Codes;

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

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Signed: Title:

Date: November 28, 2017 Place: Paris, France

| Unive the cr subm | e rsity, 10 yptosyste itted, kno | b Szefer, ofDepartment of Electrical Engineering, Yale Hillhouse Ave., New Haven, CT 06510, USA, do hereby declare the em, reference implementation, or optimized implementations that I have ewn asBoring Binary Goppa Codes, is my own original work, or a tly with others, is the original work of the joint submitters. | |
|-------------------------|---|---|---|
| I furti | her decla | re that (check one): | |
| • | which impler | ot hold and do not intend to hold any patent or patent application with a claimay cover the cryptosystem, reference implementation, or optimized nentations that I have submitted, known as Boring Binary Goppa Code OR (check one or both of the following): | |
| | • | to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as (print name of cryptosystem), may be covered by the following U.S. and/or foreign patents: (describe and enumerate or state "none if applicable); | g |
| | • | I do hereby declare that, to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: (describe and enumerate or state "none" if applicable) | g |

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

I acknowledge that NIST will announce any selected cryptosystem(s) and proceed to publish the draft standards for public comment

I do hereby agree to provide the statements required by Sections 2.D.2 and 2.D.3 in the Call For Proposals for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process.

I acknowledge that, during the post-quantum algorithm evaluation process, NIST may remove my cryptosystem from consideration for standardization. If my cryptosystem (or the derived cryptosystem) is removed from consideration for standardization or withdrawn from consideration by all submitter(s) and owner(s), I understand that rights granted and assurances made under Sections 2.D.1, 2.D.2 and 2.D.3 of the Call For Proposals, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed: Selul Srefer

Title: Assistant Professor

Date: Nov. 29, 2017

Place: Dormstadt, Gemany

2.D.1 Statement by Each Submitter I, _____ Wen Wang _____, of ____ School of Engineering and Applied Science, Yale University, 10 Hillhouse Avenue, New Haven, CT 06511, USA_____, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as _____ Boring Binary Goppa Codes____, is my own original work, or if submitted jointly with others, is the original work of the joint submitters. I further declare that (check one): I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as _____ Boring Binary Goppa Codes____; OR (check one or both of the following):

| • | to the best of my knowledge, the practice of the cryptosystem, reference |
|---|--|
| | implementation, or optimized implementations that I have submitted, known as |
| | (print name of cryptosystem), may be covered by the following U.S. |
| | and/or foreign patents: (describe and enumerate or state "none" if |
| | applicable); |

• I do hereby declare that, to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: _____ (describe and enumerate or state "none" if applicable) _____.

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

I acknowledge that NIST will announce any selected cryptosystem(s) and proceed to publish the draft standards for public comment

I do hereby agree to provide the statements required by Sections 2.D.2 and 2.D.3 in the Call For Proposals for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process.

I acknowledge that, during the post-quantum algorithm evaluation process, NIST may remove

my cryptosystem from consideration for standardization. If my cryptosystem (or the derived cryptosystem) is removed from consideration for standardization or withdrawn from consideration by all submitter(s) and owner(s), I understand that rights granted and assurances made under Sections 2.D.1, 2.D.2 and 2.D.3 of the Call For Proposals, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed: Wen Way
Title: Boring Binary Groppa Codes
Date: Nov. 27th, 2017
Place: TU Darmstadt, Greenary

Statement by Reference/Optimized Implementations' Owner(s)

| The following must also be included: | Graduata School of Engineering | Osaka Vaiversit |
|--|--------------------------------------|-----------------------------------|
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Signed: Af

Title: Assistant Professor

Date: 22 March, 2018

Place: Dsaka, Japan

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Signed: D.J. Reunstew

Title: Research Professor

Date: 14 March 2018

Place: Eindhouen

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| Signed: Vill | | | |
| Title: Assistan/ Poksser | | | |
| Date: April 6, 2018 | | | |
| Place. In / low deda 1254 | | | |