

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5932123

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
IRDETO CANADA CORPORATION	03/18/2013
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	IRDETO B.V.
<b>Street Address:</b>	TAURUSA VENUE 105
<b>City:</b>	HOOFFDORP
<b>State/Country:</b>	NETHERLANDS
<b>Postal Code:</b>	2130 LS
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15426090
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(415)683-5472
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	4156835472
<b>Email:</b>	Docketing.Rimonlaw@Clarivate.com
<b>Correspondent Name:</b>	RIMON LAW
<b>Address Line 1:</b>	ONE EMBARCADERO CENTER, SUITE 400
<b>Address Line 4:</b>	SAN FRANCISCO, CALIFORNIA 94111
<b>ATTORNEY DOCKET NUMBER:</b>	14-30041-US-C
<b>NAME OF SUBMITTER:</b>	MARC S. KAUFMAN
<b>SIGNATURE:</b>	/Marc S. Kaufman/
<b>DATE SIGNED:</b>	01/28/2020
<b>Total Attachments: 20</b>	
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## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5249381

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
IRDETO CANADA CORPORATION	03/18/2013
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	IRDETO B.V.
<b>Street Address:</b>	TAURUSA VENUE 105
<b>City:</b>	HOOFFDORP
<b>State/Country:</b>	NETHERLANDS
<b>Postal Code:</b>	2130 LS
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15426090
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	202-459-9882
<b>Email:</b>	Marc.Kaufman@rimonlaw.com, Docketing.Rimonlaw@clarivate.com
<b>Correspondent Name:</b>	MARC S. KAUFMAN
<b>Address Line 1:</b>	ONE EMBARCADERO CENTER
<b>Address Line 2:</b>	SUITE 400
<b>Address Line 4:</b>	SAN FRANCISCO, CALIFORNIA 94111
<b>ATTORNEY DOCKET NUMBER:</b>	14-30041-US-C
<b>NAME OF SUBMITTER:</b>	MARC S. KAUFMAN
<b>SIGNATURE:</b>	/Marc S. Kaufman, Reg. No. 35,212/
<b>DATE SIGNED:</b>	11/22/2018
<b>Total Attachments: 18</b>	
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**ASSIGNMENT AND ACQUISITION OF INTELLECTUAL PROPERTY ASSETS**

between

**IRDETO CANADA CORPORATION**

and

**IRDETO B.V.**

**CONTENTS**

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**CLAUSE**

1.	Interpretation .....	1
2.	Assignment.....	3
3.	VAT .....	4
4.	Further assurance .....	6
5.	Waiver.....	6
6.	Entire agreement.....	6
7.	Variation.....	7
8.	Severance .....	7
9.	Counterparts .....	7
10.	Third party rights .....	7
11.	Notices .....	7
12.	Governing law and jurisdiction .....	8

**SCHEDULES 1 AND 2**

**THIS AGREEMENT** is dated March 15, 2013.

**PARTIES**

- (1) Irdeto Canada Corporation, a company incorporated and registered Canada, with its principal place of business at 2500 Solandt Road, Ottawa, ON K2K 3G5, Canada (**Assignor**, and in the alternative **Seller**).
  
- (2) Irdeto B.V., a company incorporated and registered in The Netherlands, with company number 34073774 whose registered office is at Taurusavenue 105, 2130 LS Hoofddorp, The Netherlands (**Assignee**, and in the alternative **Purchaser**).

Hereinafter also referred to individually as "Party" or collectively as "Parties";

**BACKGROUND**

WHEREAS, Seller and Purchaser desire that Purchaser acquires, on the terms and conditions set forth in this Agreement, all rights, titles and interests in Seller's Intellectual Property and other related intangibles as defined in this Agreement;

NOW, THEREFORE, in consideration of the mutual premises, and covenants contained herein, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged the Parties hereto agree as follows:

**AGREED TERMS**

**1. INTERPRETATION**

- 1.1 The definitions and rules of interpretation in this clause apply in this agreement.

**Effective Date:** The effective date shall be March 31, 2013.

**Intellectual Property:** "Intellectual Property" means all right, title and interest in or relating to intellectual property, whether protected, created or arising under the laws of Canada or any other jurisdiction, including: (i) all patents and applications therefor, including all continuations, divisionals, and continuations-in-part thereof and patents issuing thereon, along with all reissues, reexaminations and extensions thereof (collectively, "Patents"); (ii) all trademarks, service marks, trade names, service names, brand names, trade

dress rights, logos, corporate names, trade styles, logos and other source or business identifiers and general intangibles of a like nature, together with the goodwill associated with any of the foregoing, along with all applications, registrations, renewals and extensions thereof (collectively, "**Marks**"); (iii) all Internet domain names; (iv) all copyrights and all mask works, databases and design rights, whether or not registered or published, all registrations and recordations thereof and all applications in connection therewith, along with all reversions, extensions and renewals thereof (collectively, "**Copyrights**"); (iv) trade secrets ("**Trade Secrets**"); and (v) know-how.

**Assignor's Intellectual Property:** means all of the Intellectual Property of Assignor, including without limitation the Patents, Marks, and Copyrights which are set out in Schedule 1 attached hereto and by this reference incorporated herein.

**Excluded Intellectual Property:** means such Intellectual Property of Assignor specifically itemized in Schedule 2 attached hereto and by this reference incorporated herein.

**Transferred Assets:** shall have the meaning as set forth in Section 2.1 below.

**Taxes:** shall mean all taxes associated with the purchase and sale of the Transferred Assets described herein, including without limitation, withholding, sales, use, excise, franchise, value-added, consumption, GST and similar indirect taxes, and all customs, duties or other governmental impositions, excluding taxes calculated on net or gross income or receipts.

**VAT:** value added tax imposed in any member state of the European Union pursuant to Council Directive (EC) 2006/112 on the common system of value added tax and national legislation implementing that Directive or any predecessor to it, or supplemental to that Directive, or any similar tax which may be substituted for or levied in addition to it or any value added, sales, turnover or similar tax imposed in any country that is not a member of the European Union.

- 1.2 Clause and Schedule headings shall not affect the interpretation of this agreement.
- 1.3 The Schedules form part of this agreement and shall have effect as if set out in full in the body of this agreement. Any reference to this agreement includes the Schedules.



- 1.4 References to clauses and Schedules are to the clauses and Schedules of this agreement.
- 1.5 Unless the context otherwise requires, words in the singular shall include the plural and in the plural include the singular.
- 1.6 Unless the context otherwise requires, a reference to one gender shall include a reference to the other genders.
- 1.7 A reference to a statute or statutory provision shall include any subordinate legislation made from time to time under that statute or statutory provision.
- 1.8 **Writing or written** includes faxes but not e-mail.
- 1.9 Any words following the terms **including, include, in particular** or any similar expression shall be construed as illustrative and shall not limit the sense of the words preceding those terms.
- 1.10 A **person** includes a natural person, corporate or unincorporated body (whether or not having separate legal personality) [and that person's legal and personal representatives, successors and permitted assigns].

**2. ASSIGNMENT**

- 2.1 Subject to Section 2.4 below, and expressly excluding the Excluded Intellectual Property, in consideration of the sum of USD 1.- (one US dollar) ("Purchase Price") the Assignor hereby sells, transfers, conveys' and assigns to Assignee, and Assignee hereby purchases, receives, accepts and acquires from Assignor, all of such Assignor's rights, titles and interests in and to the Transferred Assets, including any associated goodwill . Transferred Assets means all Assignor's Intellectual Property, however excluding the Excluded Intellectual Property. The Transferred Assets shall include registered, un-registered and in-development:
- (a) the absolute entitlement to any Marks, Patents and Copyrights comprised in the such Transferred Assets; and
  - (b) all statutory and common law rights attaching to the Marks, Patents and Copyrights which are part of the Transferred Assets, together with the goodwill of the business relating to the goods or services in respect of which such intellectual property assets are registered or used; and
  - (c) the right to bring, make, oppose, defend, appeal proceedings, claims or actions and obtain relief (and to retain any damages recovered) in

respect of any infringement, or any other cause of action (including passing off) arising from ownership, of any of the Marks, Patents and Copyrights which are part of the Transferred Assets whether occurring before, on or after the date of this agreement.

- 2.2 Subject to Section 2.4 below and pursuant to the transfer of the Transferred Assets herein, and for the avoidance of doubt and to the extent legally permissible, Assignor hereby assigns, delegates and transfers to Assignee and Assignee hereby irrevocably and unconditionally assumes and accepts from Assignor any and all risks (economic or otherwise) associated with the Transferred Assets (collectively the "*Obligations*"). It is the intent of the Parties that Assignee shall be fully and solely responsible for, and Assignee does hereby expressly assume and accept full and sole responsibility for, the Obligations as of the Effective Date.
- 2.3 In no event shall any tangible property assets of Assignor be transferred pursuant to this Agreement. Assignee acknowledges and agrees that each item of/within such Transferred Assets is assigned, sold and purchased subject to any pre-existing rights or encumbrances.
- 2.4 Notwithstanding anything set forth above in this Section or the Agreement, no Excluded Intellectual Property shall be transferred or assigned hereunder, and shall remain with and be reserved by Assignor. For avoidance of doubt, nothing in this Agreement shall serve to alter or modify any of Assignor's rights, title and interest in and to its Excluded Intellectual Property.

3. **PAYMENT**

- 3.1 The Purchase Price payable to Seller will be paid on the Effective Date in cash, cash equivalents and/or netted if possible to Seller's intercompany debt to Purchaser if allowed under currency and accounting regulations as of the Effective Date to the bank account designated by Seller. The Purchase Price will be paid by Purchaser to Seller in US Dollars.
- 3.2 Fair Market Value:
- (a) Seller and Purchaser confirm that the Purchase Price is intended to be the third party arm's length fair market value of the Transferred Assets as of the Effective Date. If any taxing authority having jurisdiction over the Parties asserts, by assessment or reassessment, proposed assessment or reassessment or otherwise, that the fair market value of the Transferred Assets as of the Effective Date differs from the Purchase Price (an "*assessment*"), then the Purchase

Price will be adjusted to an amount: (i) agreed to by both the taxing authorities in the Netherlands and the USA in settlement of such assessment; (ii) that serves as the basis for such assessment against which no defence or appeal is taken by either Party; or (iii) that is established by a court or tribunal of competent jurisdiction following which no appeals have been taken by either Party or any relevant tax authority and the time for making any such appeal has expired.

(b) If Seller and Purchaser determine subsequent to the Effective Date, based on Information (including financial accounting information) not available to them prior to the Effective Date, that the fair market value of the Transferred Assets as of the Effective Date differs from the Purchase Price for such Transferred Assets, then the Purchase Price of such Transferred will be increased or decreased, as the case may be, to an amount equal to the adjusted fair market value of such Transferred Assets as agreed by Seller and Purchaser.

(c) The Purchase Price, if and as adjusted pursuant to Section 3.2(a) or Section 3.2(b) with respect to the Transferred Assets of Seller, shall constitute the Purchase Price under this Agreement. If an adjusting payment is required to reflect the adjusted fair market value of the Transferred Assets and the resulting adjusted Purchase Price, Purchaser shall pay Seller an amount equal to such increase in the Purchase Price or Seller shall return to Purchaser an amount equal to such decrease in the Purchase Price, as applicable.

4. TAXES AND VAT

- 4.1 Each Party shall be responsible for its own income, capital gain, or other similar taxes due in connection with the transactions contemplated by this Agreement.
- 4.2 The Purchase Price, is net of any Taxes, however designated, including without limitation any Value Added Tax ("VAT"). If any such payment constitutes the whole or any part of the consideration for a taxable or deemed taxable supply by the Assignor, the Assignee shall increase that payment by an amount equal to the VAT which is chargeable in respect of the taxable or deemed taxable supply, provided that the Assignor shall have delivered a valid VAT invoice in respect of such VAT to the Assignee.
- 4.3 If the Assignee fails to comply with its obligation under this clause 4, it shall additionally pay all interest and penalties which thereby arise to the Assignor.



**5. FURTHER ASSURANCE**

5.1 Assignor hereby covenants and agrees (and shall cause any necessary third party) to take any and all such further actions and execute such documents as may be reasonably requested by Assignee in order to further effect the assignments, transfers, conveyances and deliveries set forth in this Agreement, and to enable Assignee to fully vest, maintain, perfect, or enforce Assignee's rights in and to the Transferred Assets transferred hereunder by Assignor. To the extent that legal title to any of the Transferred Assets may not be transferred to Assignee as of the Effective Date for any reason, Assignor shall from the Effective Date hold the legal title in each such Transferred Asset in trust for Assignee, until such time as such transfer is effected.

**6. REPRESENTATIONS AND WARRANTIES**

6.1 Each Party represents and warrants to the other Party that (a) it has full power, authority and legal right to execute and deliver this Agreement and to perform its obligations hereunder and (b) this Agreement constitutes its legal, valid and binding obligation, enforceable against such Party in accordance with its terms.

6.2 Assignee shall indemnify and hold harmless Assignor, and its directors, officers, shareholders, representatives and agents, from and against any and all third party claims, losses, damages, demands, liabilities, obligations, actions and causes of action, of any kind or nature whatsoever in law or in equity arising out of or related to the Obligations.

**7. WAIVER**

7.1 No failure or delay by a party to exercise any right or remedy provided under this agreement or by law shall constitute a waiver of that or any other right or remedy, nor shall it preclude or restrict the further exercise of that or any other right or remedy. No single or partial exercise of such right or remedy shall preclude or restrict the further exercise of that or any other right or remedy.

**8. ENTIRE AGREEMENT**

8.1 This agreement constitutes the whole agreement between the parties and supersedes all previous agreements between the parties relating to its subject matter.

8.2 Each party acknowledges that, in entering into this agreement, it has not relied on, and shall have no right or remedy in respect of, any statement,

representation, assurance or warranty (whether made negligently or innocently) other than as expressly set out in this agreement.

8.3 Nothing in this clause shall limit or exclude any liability for fraud.

**9. VARIATION**

9.1 No variation of this agreement shall be effective unless it is in writing and signed by the parties (or their authorised representatives).

**10. SEVERANCE**

10.1 If any court or competent authority finds that any provision of this agreement (or part of any provision) is invalid, illegal or unenforceable, that provision or part-provision shall, to the extent required, be deemed to be deleted, and the validity and enforceability of the other provisions of this agreement shall not be affected.

10.2 If any invalid, unenforceable or illegal provision of this agreement would be valid, enforceable and legal if some part of it were deleted [, the provision shall apply with the minimum modification necessary to make it legal, valid and enforceable **OR** the parties shall negotiate in good faith to amend such provision such that, as amended, it is legal, valid and enforceable, and, to the greatest extent possible, achieves the parties' original commercial intention].

**11. COUNTERPARTS**

11.1 This agreement may be executed in any number of counterparts, each of which when executed and delivered shall constitute an original of this agreement, but all the counterparts shall together constitute the same agreement.

**12. THIRD PARTY RIGHTS**

12.1 No person other than a party to this agreement shall have any rights to enforce any term of this agreement.

**13. NOTICES**

13.1 Any notice or other communication required to be given under this agreement shall be in writing and shall be delivered personally, or sent by pre-paid first-class post or recorded delivery or by commercial courier, to each party required to receive the notice or communication as set out below:

(a) Assignor:  
Attention: CEO or CFO  
2500 Solandt Road  
Ottawa, ON K2K 3G5, Canada

(b) Assignee:  
Attention: CEO or CFO  
Taurusavenue 105  
2130 LS Hoofddorp  
The Netherlands

or as otherwise specified by the relevant party by notice in writing to each other party.

13.2 Any notice or other communication shall be deemed to have been duly received:

- (a) if delivered personally, when left at the address and for the contact referred to in this clause;
- (b) if sent by pre-paid first-class post or recorded delivery, at 9.00 am on the second business day after posting; or
- (c) if delivered by commercial courier, on the date and at the time that the courier's delivery receipt is signed.

13.3 A notice or other communication required to be given under this agreement shall not be validly given if sent by e-mail.

13.4 The provisions of this clause shall not apply to the service of any proceedings or other documents in any legal action.

#### 14. GOVERNING LAW AND JURISDICTION

14.1 This Agreement shall be governed by and construed in accordance with the law of the Netherlands, including without limitation as the same applies to patents, copyrights, trademarks, and other Intellectual Property assets. The Parties specifically disclaim the application of the UN Convention on contracts for the international sale of goods to this Agreement. The Parties shall in first instance attempt to resolve any dispute between them relating to the Agreement by referring the matter to the parties' respective CEO's for resolution; failing any resolution, the dispute shall be determined by the competent Amsterdam court, the Netherlands, to whose exclusive jurisdiction both Parties hereby irrevocably submit.



**IN WITNESS WHEREOF**, the Parties hereto have caused this Agreement to be executed by their duly authorized representatives, and made effective as of the Effective Date.

"Seller"


**Irdeto Canada Corporation**

By:

Name:

Title:

Date signed:

  
JEFFREY MARK TULKEN  
V.P. FINANCE  
18 March 2013

"Purchaser"

**Irdeto B.V.**


By:

Name:

Title:

Date signed:

Address:

  
Germaan Kroop  
CFO  
18 March 2013  
Taurusavenue 105  
2130 LS Hoofddorp  
The Netherlands

**Schedule 1**



Irdo Ref	Agent Ref	Applicant(s) at start of project	Target Applicant(s)	Country	Country code	Title	Application No	Filing Date	Publication No	Registration No
1999_06_002	P132448US01	Cloakware Corporation	irdeto B.V.	U.S.A.	US	TAMPER RESISTANT	10/340,410	10-Jan-2003	US20030221121A1	6842862
1999_06_002	P132448US00	Cloakware Corporation	irdeto B.V.	U.S.A.	US	SOFTWARE ENCODING	09/329,117	09-Jun-99		6594761
2000_04_004	P132575US00	Cloakware Corporation	irdeto B.V.	U.S.A.	US	METHOD AND SYSTEM FOR SECURE ACCESS	10/240,812	05-Apr-2001	US-2004-0078775-A1	7325141
2000_12_003	P132434US00	Cloakware Corporation	irdeto B.V.	U.S.A.	US	SYSTEM AND METHOD FOR PROTECTING COMPUTER SOFTWARE FROM A WHITE BOX ATTACK	11/020,313	27-Dec-2004	US2006-014040A1	7809135
2001_05_001	P132569US00	Cloakware Corporation	irdeto B.V.	U.S.A.	US	TAMPER RESISTANT SOFTWARE ENCODING AND ANALYSIS	10/478,678	24-May-2002	WO 02/095546	7506177
2001_06_002	P132479US00	Cloakware Corporation	irdeto B.V.	U.S.A.	US	SECURE METHOD AND SYSTEM FOR BIOMETRIC VERIFICATION	10/743,784	28-Jun-2002	US2005-0138392A1	7797549
2000_04_003	P132571US00	Cloakware Corporation	irdeto B.V.	U.S.A.	US	TAMPER RESISTANT SOFTWARE-MASS DATA ENCODING	10/257,333	28-Feb-03	US2003163718	7350085
2001_11_001	P132444US00	Cloakware Corporation	irdeto B.V.	U.S.A.	US	SECURE METHOD AND SYSTEM FOR COMPUTER PROTECTION	10/851,131	24-May-2004	US2004-0268322A1	7958554
2001_11_001	P132444US01	irdeto Canada Corporation	irdeto B.V.	U.S.A.	US	SECURE METHOD AND SYSTEM FOR COMPUTER PROTECTION	13/106,519	12-May-2011	US-2011-0214179-A1	8458792
2002_01_002	P132582US00	Cloakware Corporation	irdeto B.V.	U.S.A.	US	SYSTEM AND METHOD FOR HIDING CRYPTOGRAPHIC PRIVATE KEYS	10/899,012	30-Jan-2003	US20050002532A1	7634091
2004_01_001	P132447US00	irdeto Canada Corporation	irdeto B.V.	U.S.A.	US	SECURE METHOD ASYSTEM AND METHOD FOR OBSCURING BIT-WISE AND TWO'S COMPLEMENT INTEGER COMPUTATIONS IN SOFTWARE	11/039,817	24-Jan-2005	US2005-0166191A1	7966499
2004_07_004	P132443US00	irdeto Canada Corporation	irdeto B.V.	U.S.A.	US	SOFTWARE CONDITIONAL ACCESS SYSTEM	10/895,948	22-Jul-2004	US2005-0039025A1	7900041
2006_12_001	P120171CA00	irdeto Canada Corporation	irdeto B.V.	Canada	CA		2,672,775	15-Nov-2007		
2006_12_001	P120171US00	irdeto Canada Corporation	irdeto B.V.	U.S.A.	US	SIMPLIFIED MANAGEMENT OF AUTHENTICATION	11/640,371	18-Dec-2006	US2008-0148373A1	8424077
2006_12_001	P120171EP00	Cloakware Corporation	irdeto B.V.	European	EP		07845518.5	15-Nov-2007	2115654	
2006_12_001	P120171	irdeto Canada Corporation	irdeto B.V.	Argentina	AR	CREDENTIALS FOR UNATTENDED APPLICATIONS	P 07 01 05606	13-Dec-2007	AR064339A1	
2006_12_001	P120171	irdeto Canada Corporation	irdeto B.V.	Thailand	TH		0701006429	14-Dec-07		
2006_12_001	P120171	irdeto Canada Corporation	irdeto B.V.	Taiwan	TW		96147786	14-Dec-07	TW200828944	
2007_05_002	P120169CA00	irdeto Canada Corporation	irdeto B.V.	Canada	CA		2,678,953	21-Feb-2008		
2007_05_002	P120169CN00	Cloakware Corporation	irdeto B.V.	China	CN		200880005942.1	21-Feb-2008	CN 101627394A	ZL200880005942.1
2007_05_002	P120169US00	irdeto Canada Corporation	irdeto B.V.	U.S.A.	US		11/709,654	23-Feb-2007	US2008-0216051A1	
2007_05_002	P120169US01	irdeto Canada Corporation	irdeto B.V.	U.S.A.	US	SYSTEM AND METHOD FOR INTERLOCKING TO PROTECT SOFTWARE-MEDIATED BEHAVIOURS	11/980,392	23-Feb-2007	US-2008-0208560-A1	8161463
2007_05_002	P120169EP00	Cloakware Corporation	irdeto B.V.	European	EP		08714655.1	21-Feb-2008	2126776	
2007_05_002	P120169	Cloakware Corporation	irdeto B.V.	India	IN		5762/DELNP/2009	21-Feb-2008		
2007_05_002	P120169	Cloakware Corporation	irdeto B.V.	Thailand	TH		0801000825	20-Feb-2008	97728	
2007_05_002	P120169	Cloakware Corporation	irdeto B.V.	Taiwan	TW		097106229	22-Feb-2008		
2007_05_002	P120169	Cloakware Corporation	irdeto B.V.	Argentina	AR		P080100743	22-Feb-08	AR065443	
2007_05_002	P120169	Cloakware Corporation	irdeto B.V.	U.S.A.	US		14/266,252	23-Feb-07		
2007_05_003	P120168CA00	irdeto Canada Corporation	irdeto B.V.	Canada	CA	SYSTEM AND METHOD FOR INTERLOCKING TO PROTECT SOFTWARE-MEDIATED BEHAVIOURS	2,678,951	21-Feb-2008	WO/2008/101340	
2007_05_003	P120168CN00	Cloakware Corporation	irdeto B.V.	China	CN		200880006071.5	21-Feb-2008		ZL200880006071.5
2007_05_003	P120168EP00	Cloakware Corporation	irdeto B.V.	European	EP		08714653.6	21-Feb-2008	2126775	
2007_05_003	P120168	Cloakware Corporation	irdeto B.V.	India	IN		5764/DELNP/2009	21-Feb-2008		
2008_05_004	P120175	irdeto Canada Corporation	irdeto B.V.	China	CN		200980118647.1	25-May-2009	CN102047220A	

**PATENT**

**REEL: 057688 FRAME: 0280**

2008_05_004	P120175	Irdeto Canada Corporation	Irdeto B.V.	India	IN	SYSTEM AND METHOD FOR GENERATING WHITE-BOX IMPLEMENTATIONS OF SOFTWARE APPLICATIONS	8286/DELNP/2010 2011-509832	25-May-2009	2011-521366
2008_05_004	P120175	Irdeto Canada Corporation	Irdeto B.V.	Japan	JP		2010-7028600	25-May-2009	11-31426
2008_05_004	P120175	Irdeto Canada Corporation	Irdeto B.V.	Republic of Korea	KR		2,724,793	25-May-2009	
2008_05_004	P120175CA00	Irdeto Canada Corporation	Irdeto B.V.	Canada	CA		12,992,318	25-May-2009	US2011-0067012A1
2008_05_004	P120175US00	Irdeto Canada Corporation	Irdeto B.V.	U.S.A.	US		09749378.7	25-May-2009	2304552
2008_05_004	P120175EP00	Irdeto Canada Corporation	Irdeto B.V.	European	EP		2,761,065	01-Jun-2009	
2008_05_005	P120177CA00	Irdeto Canada Corporation	Irdeto B.V.	Canada	CA		09753392.1	01-Jun-2009	2281263
2008_05_005	P120177EP00	Irdeto Canada Corporation	Irdeto B.V.	European	EP		200980126751.5	01-Jun-2009	CN 102089767 A
2008_05_005	P120177	Irdeto Canada Corporation	Irdeto B.V.	China	CN	AUTHENTICATED DATABASE CONNECTIVITY FOR UNATTENDED APPLICATIONS	8459/DELNP/2010	01-Jun-2009	09/2012
2008_05_005	P120177	Irdeto Canada Corporation	Irdeto B.V.	India	IN		2011-510795	01-Jun-2009	2011-522315
2008_05_005	P120177	Irdeto Canada Corporation	Irdeto B.V.	Japan	JP		10-2010-7029804	01-Jun-2009	10-2011-0034622
2008_05_005	P120177	Irdeto Canada Corporation	Irdeto B.V.	Republic of Korea	KR		12,992,325	01-Jun-2009	US 2011-0093937 A1
2008_05_005	P120177	Irdeto Canada Corporation	Irdeto B.V.	U.S.A.	US		10771931.2	06-May-2010	2430584
2009_05_005	P120185CA00	Irdeto Canada Corporation	Irdeto B.V.	Canada	CA		201080030733.X	06-May-2010	CN102483790A
2009_05_005	P120185EP00	Irdeto Canada Corporation	Irdeto B.V.	European	EP		9367/DELNP/2011	06-May-2010	09/2013
2009_05_005	P120185	Irdeto Canada Corporation	Irdeto B.V.	China	CN	INTERLOCKED BINARY PROTECTION USING WHITEBOX CRYPTOGRAPHY	2012-508860	06-May-2010	2012-526310
2009_05_005	P120185	Irdeto Canada Corporation	Irdeto B.V.	India	IN		10-2011-7029157	06-May-2010	
2009_05_005	P120185	Irdeto Canada Corporation	Irdeto B.V.	Japan	JP		13,319,561	06-May-2010	US 2012-0192283 A1
2009_05_005	P120185	Irdeto Canada Corporation	Irdeto B.V.	Republic of Korea	KR		09850175.2	08-Oct-2009	2486482
2009_05_005	P120185	Irdeto Canada Corporation	Irdeto B.V.	U.S.A.	US		200980162789.8	08-Oct-2009	CN 102713839 A
2009_10_002	P122288CA00	Irdeto Canada Corporation	Irdeto B.V.	Canada	CA		2921/DELNP/2012	08-Oct-2009	47/2013
2009_10_002	P122288EP00	Irdeto Canada Corporation	Irdeto B.V.	European	EP	A SYSTEM AND METHOD FOR AGGRESSIVE SELF-MODIFICATION IN DYNAMIC FUNCTION CALL SYSTEMS	2012-532425	08-Oct-2009	2013-507670
2009_10_002	P122288	Irdeto Canada Corporation	Irdeto B.V.	China	CN		10-2012-7011874	08-Oct-2009	
2009_10_002	P122288	Irdeto Canada Corporation	Irdeto B.V.	India	IN		13,500,155	08-Oct-2009	US 2012-0284792 A1
2009_10_002	P122288	Irdeto Canada Corporation	Irdeto B.V.	Japan	JP		2,792,782	31-Mar-2010	
2009_10_002	P122288	Irdeto Canada Corporation	Irdeto B.V.	Republic of Korea	KR		10848642.4	31-Mar-2010	2553571
2009_10_002	P122288	Irdeto Canada Corporation	Irdeto B.V.	U.S.A.	US		201080065896.1	31-Mar-2010	CN 102947835 A
2010_03_004	P124421CA00	Irdeto Canada Corporation	Irdeto B.V.	Canada	CA		7791/DELNP/2012	31-Mar-2010	
2010_03_004	P124421EP00	Irdeto Canada Corporation	Irdeto B.V.	European	EP	A SYSTEM AND METHOD FOR ENCAPSULATING AND ENABLING PROTECTION THROUGH DIVERSE VARIATIONS IN SOFTWARE LIBRARIES	2013-501568	31-Mar-2010	2013-524322
2010_03_004	P124421	Irdeto Canada Corporation	Irdeto B.V.	China	CN		10-2012-7028138	31-Mar-2010	
2010_03_004	P124421	Irdeto Canada Corporation	Irdeto B.V.	India	IN		13,634,388	31-Mar-2010	US 2013-0014274 A1
2010_03_004	P124421	Irdeto Canada Corporation	Irdeto B.V.	Japan	JP		2,792,787	31-Mar-2010	
2010_03_004	P124421	Irdeto Canada Corporation	Irdeto B.V.	Republic of Korea	KR		10848644.0	31-Mar-2010	2553866
2010_03_004	P124421	Irdeto Canada Corporation	Irdeto B.V.	U.S.A.	US		201080065944.7	31-Mar-2010	CN103081398A
2010_03_005	P124388CA00	Irdeto Canada Corporation	Irdeto B.V.	Canada	CA		7790/DELNP/2012	31-Mar-2010	
2010_03_005	P124388EP00	Irdeto Canada Corporation	Irdeto B.V.	European	EP	SYSTEM AND METHOD FOR PROTECTING CRYPTOGRAPHIC ASSETS FROM A WHITE-BOX ATTACK	2013-501569	31-Mar-2010	
2010_03_005	P124388	Irdeto Canada Corporation	Irdeto B.V.	China	CN		10-2012-7026744	31-Mar-2010	1020130024897
2010_03_005	P124388	Irdeto Canada Corporation	Irdeto B.V.	India	IN		13,637,811	31-Mar-2010	US 2013-0024699 A1
2010_03_005	P124388	Irdeto Canada Corporation	Irdeto B.V.	Japan	JP		10848641.6	31-Mar-2010	2553570
2010_03_005	P124388	Irdeto Canada Corporation	Irdeto B.V.	Republic of Korea	KR		2,792,304	31-Mar-2010	
2010_03_005	P124388	Irdeto Canada Corporation	Irdeto B.V.	U.S.A.	US		201080065909.5	31-Mar-2010	CN 102939587 A
2010_06_006	P124395EP00	Irdeto Canada Corporation	Irdeto B.V.	European	EP				
2010_06_006	P124395CA00	Irdeto Canada Corporation	Irdeto B.V.	Canada	CA				
2010_06_006	P124395	Irdeto Canada Corporation	Irdeto B.V.	China	CN	METHOD FOR LINKING AND			

**PATENT**

**REEL: 057688 FRAME: 0290**

2010_06_006	P124395	Irdeto Canada Corporation	Irdeto B.V.	India	IN	LOADING TO PROTECT APPLICATIONS	7789/DELNP/2012	31-Mar-2010	2013-524321
2010_06_006	P124395	Irdeto Canada Corporation	Irdeto B.V.	Japan	JP		2013-501567	31-Mar-2010	2013-524321
2010_06_006	P124395	Irdeto Canada Corporation	Irdeto B.V.	Republic of Korea	KR		10-2012-7028136	31-Mar-2010	
2010_06_006	P124395	Irdeto Canada Corporation	Irdeto B.V.	U.S.A.	US		13/634,724	31-Mar-2010	US 2013-0014275 A1
2010_07_008	P126267CA00	Irdeto Canada Corporation	Irdeto B.V.	Canada	CA	SYSTEM AND METHOD FOR EFFICIENTLY DEPLOYING	2,806,768	29-Jul-2010	WO 2012/012861
2010_07_008	P126267EP00	Irdeto Canada Corporation	Irdeto B.V.	European	EP		10855133.4	29-Jul-2010	2598987
2010_07_008	P126267	Irdeto Canada Corporation	Irdeto B.V.	China	CN	MASSIVELY DIVERSE PROGRAM INSTANCES TO RESIST DIFFERENTIAL ATTACKS	201080069313.2	29-Jul-2010	CN103348319
2010_07_008	P126267	Irdeto Canada Corporation	Irdeto B.V.	India	IN		936/DELNP/2013	29-Jul-2010	
2010_07_008	P126267	Irdeto Canada Corporation	Irdeto B.V.	U.S.A.	US		13/812,404	29-Jul-2010	US 2013-0125090 A1
2011_06_002	P131699	Irdeto Canada Corporation	Irdeto B.V.	PCT	WO		PCT/CA2011/001003	07-Sep-2011	WO 2013/033807
2011_06_002	P131699	Irdeto Canada Corporation	Irdeto B.V.	U.S.A.	US	METHOD AND SYSTEM FOR ENHANCING CONTENT SECURITY	14/343,386	07-Sep-11	
2011_06_002	P131699	Irdeto Canada Corporation	Irdeto B.V.	China	CN		PCT/CA11/01003	07-Sep-11	
2011_06_002	P131699EP00	Irdeto Canada Corporation	Irdeto B.V.	European	EP		11871859.2	07-Sep-11	
2011_06_002	P131699ZA00	Irdeto Canada Corporation	Irdeto B.V.	South Africa	ZA		2014/02006	07-Sep-11	
2011_07_002	n/a	Irdeto Canada Corporation	Irdeto B.V.	PCT	WO	METHOD AND APPARATUS FOR PROGRAM FLOW IN SOFTWARE OPERATION	PCT/CA2012/000134	10-Feb-2012	WO/2013/116918
2011_09_002	n/a	Irdeto Canada Corporation	Irdeto B.V.	PCT	WO	SYSTEM AND METHOD FOR GENERATING AND PROTECTING CRYPTOGRAPHIC KEYS	PCT/CA2012/000114	09-Feb-2012	WO/2013/116916
2011_11_003	n/a	Irdeto Canada Corporation	Irdeto B.V.	PCT	WO	METHOD FOR PROTECTING DATA	PCT/CA2012/000269	26-Mar-2012	WO/2013/142943
2011_12_003	n/a	Irdeto Canada Corporation	Irdeto B.V.	PCT	WO	METHOD AND SYSTEM FOR CHAIN TRANSFORMATION	PCT/CA2012/000251	21-Mar-2012	WO/2013/138894
2012_01_003	n/a	Irdeto Canada Corporation	Irdeto B.V.	PCT	WO	UPDATING SOFTWARE COMPONENTS	PCT/CA2012/000307	22-Mar-2012	WO/2013/138895
2012_02_003	n/a	Irdeto Canada Corporation	Irdeto B.V.	PCT	WO	SECURED EXECUTION OF A WEB APPLICATION	PCT/CA2012/000297	30-Mar-2012	WO/2013/142947
2012_03_001	n/a	Irdeto Canada Corporation	Irdeto B.V.	PCT	WO	METHOD AND SYSTEM FOR PREVENTING AND DETECTING SECURITY THREATS	PCT/CA2012/000298	30-Mar-2012	WO/2013/142948
2012_02_001	P126283WO00	Irdeto Canada Corporation	Irdeto B.V.	PCT	WO	SECURING ACCESSIBLE SYSTEMS USING BASE FUNCTION ENCODING	PCT/CA2013/000305	28-Mar-13	WO/2013/142981
2012_02_002	P126283WO03	Irdeto Canada Corporation	Irdeto B.V.	PCT	WO	SECURING ACCESSIBLE SYSTEMS USING VARIABLE DEPENDENT CODING	PCT/CA2013/000304	28-Mar-13	WO/2013/142980
2012_02_006	P126283WO02	Irdeto Canada Corporation	Irdeto B.V.	PCT	WO	SECURING ACCESSIBLE SYSTEMS USING CROSS-LINKING	PCT/CA2013/000309	28-Mar-13	WO/2013/142983
2012_02_007	P126283WO01	Irdeto Canada Corporation	Irdeto B.V.	PCT	WO	SECURING ACCESSIBLE SYSTEMS USING DYNAMIC DATA MANGLING	PCT/CA2013/000303	28-Mar-13	WO/2013/142979
2009_11_002	P122123CA00	Irdeto Canada Corporation	Irdeto B.V.	Canada	CA		2,774,728	12-Nov-2010	WO 2011/057393
2009_11_002	P122123	Irdeto Canada Corporation	Irdeto B.V.	China	CN	SYSTEM AND METHOD TO PROTECT JAVA BYTECODE	201080048082.7	12-Nov-2010	CN102598017A
2009_11_002	P122123	Irdeto Canada Corporation	Irdeto B.V.	India	IN	CODE AGAINST STATIC AND DYNAMIC ATTACKS WITHIN HOSTILE EXECUTION ENVIRONMENTS	2458/DELNP/2012	12-Nov-2010	
2009_11_002	P122123	Irdeto Canada Corporation	Irdeto B.V.	Japan	JP		2012-538154	12-Nov-2010	2013-511077
2009_11_002	P122123	Irdeto Canada Corporation	Irdeto B.V.	Republic of Korea	KR		10-2012-7015162	12-Nov-2010	
2009_11_002	P122123	Irdeto Canada Corporation	Irdeto B.V.	U.S.A.	US		13/499,495	12-Nov-2010	US-2012-0246487-A1
2009_11_002	P122123EP00	Irdeto Canada Corporation	Irdeto B.V.	European	EP		10829403.4	12-Nov-2010	2467800

**PATENT**

2012_07_002	n/a	Irdeto Canada Corporation	Irdeto B.V.	PCT	WO	METHOD AND SYSTEM FOR PLATFORM AND USER APPLICATION SECURITY ON A DEVICE	PCT/CA2013/000288	26-Mar-2013
2012_08_002	n/a	Irdeto Canada Corporation	Irdeto B.V.	PCT	WO	RENEWABLE MEDIA PATH SECURITY FOR DIGITAL CONTENT	PCT/US13/34444	28-Mar-2013
Trademark		Cloakware Corporation	Irdeto Canada	U.S.A.	US	CLOAKWARE	2,885,510	
Trademark		Cloakware Corporation	Irdeto Canada	U.S.A.	US	CLOAKWARE	3,024,895	
Trademark		Cloakware Corporation	Irdeto Canada	Community Trade Mark		CLOAKWARE	001567585	
Trademark		Cloakware Corporation	Irdeto Canada	Canada	CA	CLOAKWARE	535,592	
Trademark		Cloakware Corporation	Irdeto Canada	Canada	CA	CLOAKWARE	540,765	
Trademark		Cloakware Corporation	Irdeto Canada	U.S.A.	US	SECURE SOFTWARE...FROM THE INSIDE OUT	3,077,415	

Schedule 2

Irdeto Ref	Agent Ref	Applicant(s) at start of project	Target Applicant(s)	Country	Country code	Title	Application No	Filing Date	Publication No	Registration No
2001_06_001	P132568US00	Cloakware Corporation	Irdeto Canada Corporation	U.S.A.	US	METHOD AND SYSTEM FOR SUSTAINABLE DIGITAL WATERMARKING	10/478,696	10-Jun-2002	US20050021966A1	7395433
2001_07_003	P132567US00	Cloakware Corporation	Irdeto Canada Corporation	U.S.A.	US	SECURE METHOD AND SYSTEM FOR HANDLING AND DISTRIBUTING DIGITAL MEDIA	10/485,320	26-Jul-2002	US20050021989A1	7464269
2002_02_001	P132566US00	Cloakware Corporation	Irdeto Canada Corporation	U.S.A.	US	FOILING BUFFER-OVERFLOW AND ALIEN-CODE ATTACKS	10/367,648	14-Feb-03	US2003172293	7730322
2010_03_007	n/a	Irdeto Canada Corporation			WO	SYSTEM AND METHOD FOR RANDOM ALGORITHM SELECTION TO DYNAMICALLY CONCEAL THE OPERATION OF SOFTWARE	PCT/CA10/00393	24-Mar-10	WO11/116446	
2010_03_008	P124414CA00	Irdeto Canada Corporation	-	Canada	CA		2,792,302	25-Mar-2010		
2010_03_008	P124414EP00	Irdeto Canada Corporation	-	European	EP	SYSTEM AND METHOD FOR DYNAMIC, VARIABLY-TIMED OPERATION PATHS	10848145.8	25-Mar-2010	2550622	
2010_03_008	P124414	Irdeto Canada Corporation	-	China	CN	AS A RESISTANCE TO SIDE CHANNEL AND REPEATED INVOCATION ATTACKS	201080065759.8	25-Mar-2010	CN102939608A	
2010_03_008	P124414	Irdeto Canada Corporation	-	India	IN		7792/DELNP/2012	25-Mar-2010		
2010_03_008	P124414	Irdeto Canada Corporation	-	Japan	JP		2013-500287	25-Mar-2010	2013-524305	
2010_03_008	P124414	Irdeto Canada Corporation	-	Republic of Korea	KR		10-2012-7026128	25-Mar-2010		
2010_03_008	P124414	Irdeto Canada Corporation	-	U.S.A.	US		13,583,965	25-Mar-2010	US-2013-0007881-A1	

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