

10-18-2000



9.22.00

101490004

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies): <b>eCash Technologies, Inc.</b></p> <p>Additional name(s) of conveying party(ies) attached?  <input type="checkbox"/> Yes    <input checked="" type="checkbox"/> No</p> <p>3. Nature of conveyance:  <input type="checkbox"/> Assignment                      <input type="checkbox"/> Merger  <input checked="" type="checkbox"/> Security Agreement            <input type="checkbox"/> Change of Name  <input type="checkbox"/> Other _____</p> <p>Execution Date: <b>September 21, 2000</b></p>	<p>2. Name and Address of receiving party(ies)</p> <p>Name: <b>Trillium Corporation</b></p> <p>Internal Address: _____</p> <p>Street Address: <b>4350 Cordata Parkway</b></p> <p>City: <b>Bellingham</b> State: <b>WA</b> Zip: <b>98226</b></p> <p>Additional name(s) &amp; address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
---	---

4. Application number(s) or patent number(s): **See Attachment A**

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

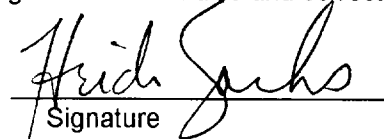
<p>A. Patent Application No.(s) <b>See Attachment A</b></p>	<p>B. Patent No.(s) <b>See Attachment A</b></p>
---	---

Additional numbers attached?  Yes  No

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: <b>Heidi L. Sachs</b></p> <p>Internal Address: <b>Perkins Coie LLP</b></p> <p>Street Address: <b>1201 Third Avenue</b> <b>Suite 4800</b></p> <p>City: <b>Seattle</b> State: <b>WA</b> Zip: <b>98101-3099</b></p>	<p>6. Total number of applications and patents involved: <b>21</b></p> <p>7. Total fee (37 CFR 3.41). . . . . <b>\$840.00</b>  <input type="checkbox"/> Enclosed  <input checked="" type="checkbox"/> Authorized to be charged to Deposit Account  <input checked="" type="checkbox"/> Charge any additional fees/credit any overpayment to Deposit Account No. 50-0665</p> <p>8. Deposit Account number: <b>50-0665</b> (Attach duplicate copy of this page if paying by Deposit Account)</p>
--	--

DO NOT USE THIS SPACE

9. Statement and signature.  
*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

<p><b>Heidi L. Sachs</b> Name of Person Signing</p>	 Signature	<p><b>September 21, 2000</b> Date</p>
---	---	---

Total number of pages including cover sheet, attachments, and documents: **25**

**ATTACHMENT A**  
**Patents**

**LIMITED TRACEABILITY SYSTEMS**

<b>TITLE</b>	<b>PATENT NUMBER</b>	<b>SERIAL NUMBER</b>	<b>FILING DATE</b>	<b>GRANT DATE</b>	<b>EXPIRATION DATE</b>
LIMITED TRACEABILITY SYSTEMS	5,712,913	08/193,500	2/8/94	1/27/98	1/27/2015
	5,878,140	08/944,637	10/6/97	3/2/99	2/8/2014*
	5,781,631	08/910,123	8/12/97	7/14/98	2/8/2014*

\*20 years from filing date of parent patent. Both U.S. Pat. 5,878,140 and 5,781,631 are Divisional Patents of U.S. Pat. 5,712,913, filed 2/8/94.

**AUTOMATIC REAL-TIME HIGHWAY TOLL COLLECTION FROM MOVING VEHICLES**

<b>TITLE</b>	<b>PATENT NUMBER</b>	<b>SERIAL NUMBER</b>	<b>FILING DATE</b>	<b>GRANT DATE</b>	<b>EXPIRATION DATE</b>
AUTOMATIC REAL-TIME HIGHWAY TOLL COLLECTION FROM MOVING VEHICLES	5,485,520	08/132,984	10/7/93	1/16/96	10/7/2013

**PRIVATE SIGNATURE AND PROOF SYSTEMS**

<b>TITLE</b>	<b>PATENT NUMBER</b>	<b>SERIAL NUMBER</b>	<b>FILING DATE</b>	<b>GRANT DATE</b>	<b>EXPIRATION DATE</b>
PRIVATE SIGNATURE AND PROOF SYSTEMS	5,493,614	08/237,098	5/3/94	2/20/96	5/3/2014

## COMPACT ENDORSEMENT SIGNATURE SYSTEMS

TITLE	PATENT NUMBER	SERIAL NUMBER	FILING DATE	GRANT DATE	EXPIRATION DATE
COMPACT ENDORSEMENT SIGNATURE SYSTEMS	5,434,919	08/179,962	1/11/94	7/18/95	1/11/2014

## DESIGNATED-CONFIRMER SIGNATURE SYSTEMS

TITLE	PATENT NUMBER	SERIAL NUMBER	FILING DATE	GRANT DATE	EXPIRATION DATE
DESIGNATED-CONFIRMER SIGNATURE SYSTEMS	5,373,558	08/066,669	5/25/93	12/13/94	5/25/2013

## SELECTED-EXPONENT SIGNATURE SYSTEMS

TITLE	PATENT NUMBER	SERIAL NUMBER	FILING DATE	GRANT DATE	EXPIRATION DATE
SELECTED-EXPONENT SIGNATURE SYSTEMS	4,996,711	07/368,677	6/21/89	2/26/91	6/21/2009

## UNPREDICTABLE BLIND SIGNATURE SYSTEMS

TITLE	PATENT NUMBER	SERIAL NUMBER	FILING DATE	GRANT DATE	EXPIRATION DATE
UNPREDICTABLE BLIND SIGNATURE SYSTEMS	4,991,210	07/347,303	5/4/89	2/5/91	5/4/2009

## OPTIONALLY MODERATED TRANSACTION SYSTEMS

TITLE	PATENT NUMBER	SERIAL NUMBER	FILING DATE	GRANT DATE	EXPIRATION DATE
OPTIONALLY MODERATED TRANSACTION SYSTEMS	5,131,039	07/609,519	11/5/90	7/14/92	11/5/2010
	5,276,736	07/912,193	7/13/92	1/4/94	1/4/2011*

\*17 years from grant date. Continuation of Ser. No. 609,519, filed 11/5/90.

## ONE-SHOW BLIND SIGNATURE SYSTEMS

TITLE	PATENT NUMBER	SERIAL NUMBER	FILING DATE	GRANT DATE	EXPIRATION DATE
ONE-SHOW BLIND SIGNATURE SYSTEMS	4,914,698	07/384,092	7/24/89	4/3/90	3/16/2008*
	4,987,593	07/504,878	4/5/90	1/22/91	3/16/2008**

\*20 years from grant date of parent patent. Continuation of Ser. No. 168,802, filed 3/16/88, abandoned.

\*\*20 years from grant date of grandparent patent. Continuation of Ser. No. 384,092, filed 7/24/89, which is a continuation of Ser. No. 168,802, filed 3/16/88, abandoned.

## RETURNED-VALUE BLIND SIGNATURE SYSTEMS

TITLE	PATENT NUMBER	SERIAL NUMBER	FILING DATE	GRANT DATE	EXPIRATION DATE
RETURNED-VALUE BLIND SIGNATURE SYSTEMS	4,949,380	07/260,053	10/20/88	8/14/90	10/20/2008

## UNDENIABLE SIGNATURE SYSTEMS

TITLE	PATENT NUMBER	SERIAL NUMBER	FILING DATE	GRANT DATE	EXPIRATION DATE
UNDENIABLE SIGNATURE SYSTEMS	4,947,430	07/123,703	11/23/87	8/7/90	11/23/2007

## CARD-COMPUTER MODERATED SYSTEMS

TITLE	PATENT NUMBER	SERIAL NUMBER	FILING DATE	GRANT DATE	EXPIRATION DATE
CARD-COMPUTER MODERATED SYSTEMS	4,926,480	07/198,315	5/24/88	5/15/90	5/15/2007*

\*Expiration is 17 years from grant date. This is a Continuation-in-part of Ser. No. 524,896, 6/22/83, and Ser No. 784,999, 10/7/85 and Ser No. 168,802, 3/16/88, abandoned and Ser No. 123,703, 10/23/87.

## BLIND UNANTICIPATED SIGNATURE SYSTEMS

TITLE	PATENT NUMBER	SERIAL NUMBER	FILING DATE	GRANT DATE	EXPIRATION DATE
BLIND UNANTICIPATED SIGNATURE SYSTEMS	4,759,064	06/784,999	10/7/85	7/19/88	10/7/2005

## BLIND SIGNATURE SYSTEMS

TITLE	PATENT NUMBER	SERIAL NUMBER	FILING DATE	GRANT DATE	EXPIRATION DATE
BLIND SIGNATURE SYSTEMS	4,759,063	06/524,896	8/22/83	7/19/88	7/19/2005

**CRYPTOGRAPHIC IDENTIFICATION, FINANCIAL TRANSACTION, AND CREDENTIAL DEVICE**

<b>TITLE</b>	<b>PATENT NUMBER</b>	<b>SERIAL NUMBER</b>	<b>FILING DATE</b>	<b>GRANT DATE</b>	<b>EXPIRATION DATE</b>
CRYPTOGRAPHIC IDENTIFICATION, FINANCIAL TRANSACTION, AND CREDENTIAL DEVICE	4,529,870	06/392,271	6/25/82	7/16/85	7/16/2002*

\*17 years from grant date. This is a Continuation of Ser. No. 129,173, 3/10/80, abandoned.

**PARTITIONED INFORMATION STORAGE SYSTEMS WITH CONTROLLED RETRIEVAL**

<b>TITLE</b>	<b>PATENT NUMBER</b>	<b>SERIAL NUMBER</b>	<b>FILING DATE</b>	<b>GRANT DATE</b>	<b>EXPIRATION DATE</b>
PARTITIONED INFORMATION STORAGE SYSTEMS WITH CONTROLLED RETRIEVAL	5,956,400	08/684,263	7/19/96	9/21/99	7/19/2016

**MULTI-PURPOSE TRANSACTION CARD SYSTEM**

<b>TITLE</b>	<b>PATENT NUMBER</b>	<b>SERIAL NUMBER</b>	<b>GRANT DATE</b>	<b>FILING DATE</b>	<b>EXPIRATION DATE<sup>1</sup></b>
MULTI-PURPOSE TRANSACTION CARD SYSTEM		08/909,480		8/11/97	

<sup>1</sup> Subject to verification of priority, if any.

## PATENT SECURITY AGREEMENT

PATENT SECURITY AGREEMENT, dated as of September 21, 2000, by ECASH TECHNOLOGIES, INC., a Delaware corporation ("Borrower"), in favor of TRILLIUM CORPORATION, a Washington corporation ("Lender").

### W I T N E S S E T H:

WHEREAS, pursuant to that certain letter agreement dated as of the date hereof by and among Borrower and Lender (including all annexes, exhibits and schedules thereto, as from time to time amended, restated, supplemented or otherwise modified, the "Letter Agreement"), Lender has agreed to make certain loans to Borrower (the "Loans").

WHEREAS, Lender is willing to make the Loans as provided for in the Letter Agreement, but only upon the condition, among others, that Borrower shall have executed and delivered to Lender that certain Security Agreement dated as of the date herewith (including all annexes, exhibits or schedules thereto, as from time to time amended, restated, supplemented or otherwise modified, the "Security Agreement");

WHEREAS, pursuant to the Security Agreement, Borrower is required to execute and deliver to Lender this Patent Security Agreement;

NOW, THEREFORE, in consideration of the premises and mutual covenants herein contained and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Borrower hereby agrees as follows:

1. DEFINED TERMS. All capitalized terms used but not otherwise defined herein have the meanings given to them in the Security Agreement.

"Patent" means any United States or foreign patent to which Borrower now or hereafter has title; any rights under licenses from another person to use any such United States or foreign patent; any contractual rights, whether or not in the nature of a license, pursuant to which Borrower has or may have use of any such United States or foreign patent; and any application for a United States or foreign patent now or hereafter made by Borrower.

2. GRANT OF SECURITY INTEREST IN PATENT COLLATERAL. Borrower hereby grants to Lender a continuing first priority security interest in all of Borrower's right, title and interest in, to and under the following, whether presently existing or hereafter created or acquired (collectively, the "Patent Collateral"):

(a) all of its Patents (including without limitation, rights to use patents owned by others pursuant to licenses) including those referred to on Schedule I hereto;

(b) all reissues, continuations or extensions of the foregoing; and

(c) all products and proceeds of the foregoing, including, without limitation, any claim by Borrower against third parties for past, present or future infringement or dilution of any Patent.

3. SECURITY AGREEMENT. The security interests granted pursuant to this Patent Security Agreement are granted in conjunction with the security interests granted to Lender pursuant to the Security Agreement. Borrower hereby acknowledges and affirms that the rights and remedies of Lender with respect to the security interest in the Patent Collateral made and granted hereby are more fully set forth in the Security Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein.

[signature page follows]







**SCHEDULE I**  
**TO**  
**PATENT SECURITY AGREEMENT**

**See attached.**

**SCHEDULE 1 TO PATENT SECURITY AGREEMENT**  
**eCash Technologies, Inc.**  
**U.S. and Foreign Patents and Patent Applications<sup>1</sup>**

**LIMITED TRACEABILITY SYSTEMS**

TITLE	COUNTRY	PATENT NUMBER	SERIAL NUMBER	FILING DATE	GRANT DATE	EXPIRATION DATE	RECORD OWNER <sup>2</sup>	STATUS OF PATENT <sup>3</sup>
LIMITED TRACEABILITY SYSTEMS	U.S.	5,712,913	08/193,500	2/8/94	1/27/98	1/27/2015	eCash Technologies, Inc.	Next payment due: 7/26/01
	U.S.	5,878,140	08/944,637	10/6/97	3/2/99	2/8/2014*	eCash Technologies, Inc.	Next payment due: 9/2/02
	U.S.	5,781,631	08/910,123	8/12/97	7/14/98	2/8/2014*	eCash Technologies, Inc.	Next payment due: 1/13/02
	EPO		95909503.5	2/8/95			DigiCash Incorporated	Next payment due: 2/8/01

\*20 years from filing date of parent patent. Both U.S. Pat. 5,878,140 and 5,781,631 are Divisional Patents of U.S. Pat. 5,712,913, filed 2/8/94.

<sup>1</sup> Data believed accurate, however, some information remains subject to confirmation from primary sources.

<sup>2</sup> All patents and applications have been assigned to eCash. Recordation of assignments is in progress. Entries in this column indicate whether public files in respective country patent offices have completed update process to reflect eCash ownership.

<sup>3</sup> Status effective as of August 4, 2000.

**eCash Technologies, Inc.  
U.S. and Foreign Patents and Patent Applications**

**AUTOMATIC REAL-TIME HIGHWAY TOLL COLLECTION FROM MOVING VEHICLES**

TITLE	COUNTRY	PATENT NUMBER	SERIAL NUMBER	FILING DATE	GRANT DATE	EXPIRATION DATE	RECORD OWNER	STATUS OF PATENT
AUTOMATIC REAL-TIME HIGHWAY TOLL COLLECTION FROM MOVING VEHICLES	U.S.	5,485,520	08/132,984	10/7/93	1/16/96	10/7/2013	eCash Technologies, Inc.	Next payment due: 7/15/03

**PRIVATE SIGNATURE AND PROOF SYSTEMS**

TITLE	COUNTRY	PATENT NUMBER	SERIAL NUMBER	FILING DATE	GRANT DATE	EXPIRATION DATE	RECORD OWNER	STATUS OF PATENT
PRIVATE SIGNATURE AND PROOF SYSTEMS	U.S.	5,493,614	08/237,098	5/3/94	2/20/96	5/3/2014	eCash Technologies, Inc.	Next payment due: 8/19/03
	EPO	0803153		2/10/95		2/10/2015	DigiCash Incorporated	<b>Pending</b> Next payment due: 2/10/01
	JAPAN		7-528185	2/10/95			DigiCash Incorporated*	<b>Pending</b>

\*Awaiting confirmation of recordation.

**eCash Technologies, Inc.  
U.S. and Foreign Patents and Patent Applications**

**COMPACT ENDORSEMENT SIGNATURE SYSTEMS**

TITLE	COUNTRY	PATENT NUMBER	SERIAL NUMBER	FILING DATE	GRANT DATE	EXPIRATION DATE	RECORD OWNER	STATUS OF PATENT
COMPACT ENDORSEMENT SIGNATURE SYSTEMS	U.S.	5,434,919	08/179,962	1/11/94	7/18/95	1/11/2014	eCash Technologies, Inc.	Next payment due: 2/23/03

**DESIGNATED-CONFIRMER SIGNATURE SYSTEMS**

TITLE	COUNTRY	PATENT NUMBER	SERIAL NUMBER	FILING DATE	GRANT DATE	EXPIRATION DATE	RECORD OWNER	STATUS OF PATENT
DESIGNATED-CONFIRMER SIGNATURE SYSTEMS	U.S.	5,373,558	08/066,669	5/25/93	12/13/94	5/25/2013	eCash Technologies, Inc.	Next payment due: 6/12/02

**eCash Technologies, Inc.  
U.S. and Foreign Patents and Patent Applications**

**SELECTED-EXPONENT SIGNATURE SYSTEMS**

TITLE	COUNTRY	PATENT NUMBER	SERIAL NUMBER	FILING DATE	GRANT DATE	EXPIRATION DATE	RECORD OWNER	STATUS OF PATENT
SELECTED-EXPONENT SIGNATURE SYSTEMS	U.S.	4,996,711	07/368,677	6/21/89	2/26/91	6/21/2009	eCash Technologies, Inc.	Next payment due: 8/25/02

**UNPREDICTABLE BLIND SIGNATURE SYSTEMS**

TITLE	COUNTRY	PATENT NUMBER	SERIAL NUMBER	FILING DATE	GRANT DATE	EXPIRATION DATE	RECORD OWNER	STATUS OF PATENT
UNPREDICTABLE BLIND SIGNATURE SYSTEMS	U.S.	4,991,210	07/347,303	5/4/89	2/5/91	5/4/2009	eCash Technologies, Inc.	Next payment due: 8/4/02

**eCash Technologies, Inc.  
U.S. and Foreign Patents and Patent Applications**

**OPTIONALLY MODERATED TRANSACTION SYSTEMS**

TITLE	COUNTRY	PATENT NUMBER	SERIAL NUMBER	FILING DATE	GRANT DATE	EXPIRATION DATE	RECORD OWNER	STATUS OF PATENT
OPTIONALLY MODERATED TRANSACTION SYSTEMS	U.S.	5,131,039	07/609,519	11/5/90	7/14/92	11/5/2010	eCash Technologies, Inc.	Next payment due: 1/13/04
	U.S.	5,276,736	07/912,193	7/13/92	1/4/94	1/4/2011*	eCash Technologies, Inc.	Next payment due: 7/4/01
	EPO	0439847		1/29/90	10/22/97	1/29/2010	DigiCash Incorporated	Fees no longer due.
	NETH.	0439847		1/29/90	10/22/97	1/29/2010	DigiCash Incorporated	LAPSED 8/6/97.
	FRANCE	0439847		1/29/90	10/22/97	1/29/2010	Security Technology (see Note 1)	Next payment due: 1/29/01
	G BRITAIN	0439847		1/29/90	10/22/97	1/29/2010	DigiCash Incorporated	Next payment due: 1/29/01
	GERMANY	69031614.3		1/29/90	10/22/97	1/29/2010	Security Technology (see Note 1)	Next payment due: 1/29/01

\*17 years from grant date. Continuation of Ser. No. 609,519, filed 11/5/90.

**Note 1:** All assignments from Security Technology to DigiCash Incorporated were executed, but have not yet been recorded.



**eCash Technologies, Inc.  
U.S. and Foreign Patents and Patent Applications**

**ONE-SHOW BLIND SIGNATURE SYSTEMS**

TITLE	COUNTRY	PATENT NUMBER	SERIAL NUMBER	FILING DATE	GRANT DATE	EXPIRATION DATE	RECORD OWNER	STATUS OF PATENT
ONE-SHOW BLIND SIGNATURE SYSTEMS	U.S.	4,914,698	07/384,092	7/24/89	4/3/90	3/16/2008*	eCash Technologies, Inc.	Next payment due: 10/2/01
	U.S.	4,987,593	07/504,878	4/5/90	1/22/91	3/16/2008**	eCash Technologies, Inc.	Next payment due: 7/21/02
	EPO	0407465		3/15/89		3/15/2009	DigiCash Incorporated	Next payment due: 3/15/01
	JAPAN		505209/89	3/15/89			DigiCash Incorporated	<b>Pending</b>

\*20 years from grant date of parent patent. Continuation of Ser. No. 168,802, filed 3/16/88, abandoned.

\*\*20 years from grant date of grandparent patent. Continuation of Ser. No. 384,092, filed 7/24/89, which is a continuation of Ser. No. 168,802, filed 3/16/88, abandoned.

**eCash Technologies, Inc.  
U.S. and Foreign Patents and Patent Applications**

**RETURNED-VALUE BLIND SIGNATURE SYSTEMS**

TITLE	COUNTRY	PATENT NUMBER	SERIAL NUMBER	FILING DATE	GRANT DATE	EXPIRATION DATE	RECORD OWNER	STATUS OF PATENT
RETURNED-VALUE BLIND SIGNATURE SYSTEMS	U.S.	4,949,380	07/260,053	10/20/88	8/14/90	10/20/2008	eCash Technologies, Inc.	Next payment due: 2/13/02
	EPO	0439512		10/18/89	1/31/96	10/18/2009	DigiCash Incorporated	Fees no longer due.
	G BRITAIN	0439512		10/18/89	1/31/96	10/18/2009	DigiCash Incorporated	Next payment due: 10/18/00
	FRANCE	0439512		10/18/89	1/31/96	10/18/2009	Security Technology (see Note 1)	Next payment due: 10/18/00
	GERMANY	68925584.5		10/18/89	1/31/96	10/18/2009	Security Technology (see Note 1)	Next payment due: 10/18/00

**eCash Technologies, Inc.  
U.S. and Foreign Patents and Patent Applications**

**UNDENIABLE SIGNATURE SYSTEMS**

TITLE	COUNTRY	PATENT NUMBER	SERIAL NUMBER	FILING DATE	GRANT DATE	EXPIRATION DATE	RECORD OWNER	STATUS OF PATENT
UNDENIABLE SIGNATURE SYSTEMS	U.S.	4,947,430	071123,703	11/23/87	8/7/90	11/23/2007	eCash Technologies, Inc.	Next payment due: 2/6/02
	EPO	0318097		11/22/88	3/18/98	11/22/2008	DigiCash Incorporated	Fees no longer due.
	FRANCE	0318097		11/22/88	3/18/98	11/22/2008	Security Technology (see Note 1)	Next payment due: 11/22/00
	G BRITAIN	0318097		11/22/88	3/18/98	11/22/2008	DigiCash Incorporated	Next payment due: 11/22/00
	GERMANY	P3856149.2		11/22/88	3/18/98	11/22/2008	Security Technology (see Note 1)	Next payment due: 11/22/00

**eCash Technologies, Inc.  
U.S. and Foreign Patents and Patent Applications**

**CARD-COMPUTER MODERATED SYSTEMS**

TITLE	COUNTRY	PATENT NUMBER	SERIAL NUMBER	FILING DATE	GRANT DATE	EXPIRATION DATE	RECORD OWNER	STATUS OF PATENT
CARD-COMPUTER MODERATED SYSTEMS	U.S.	4,926,480	07/198,315	5/24/88	5/15/90	5/15/2007*	eCash Technologies, Inc.	Next payment due: 11/14/01
	EPO	0418328		5/22/89	8/6/97	5/22/2009	DigiCash Incorporated	Fees no longer due.
	NETH.	0418328		5/22/89	8/6/97	5/22/2009	DigiCash Incorporated	LAPSED 6/8/97
	G BRITAIN	0418328		5/22/89	8/6/97	5/22/2009	DigiCash Incorporated	Next payment due: 5/22/01
CRYPTOGRAPHIC COMMUNICATIONS USING BLIND SIGNATURE	EPO	0773647**	96203443.5				DigiCash Incorporated	Next payment due: 5/22/01
	EPO		89913279.9				DigiCash Incorporated	Next payment due: 5/22/01

\*Expiration is 17 years from grant date. This is a Continuation-in-part of Ser. No. 524,896, 6/22/83, and Ser No. 784,999, 10/7/85 and Ser No. 168,802, 3/16/88, abandoned and Ser No. 123,703, 10/23/87.

\*\*This is a divisional patent of EPO 0418328 which has a filing date of 5/22/89.

**eCash Technologies, Inc.  
U.S. and Foreign Patents and Patent Applications**

**BLIND UNANTICIPATED SIGNATURE SYSTEMS**

TITLE	COUNTRY	PATENT NUMBER	SERIAL NUMBER	FILING DATE	GRANT DATE	EXPIRATION DATE	RECORD OWNER	STATUS OF PATENT
BLIND UNANTICIPATED SIGNATURE SYSTEMS	U.S.	4,759,064	06/784,999	10/7/85	7/19/88	10/7/2005	eCash Technologies, Inc.	ALL FEES PAID
	SWITZ.	0218305		10/6/86	5/6/92	10/6/2006	Security Technology (see Note 1)	Next payment due: 10/6/00
	BELGIUM	0218305		10/6/86	5/6/92	10/6/2006	DigiCash Incorporated	Next payment due: 10/6/00
	FRANCE	0218305		10/6/86	5/6/92	10/6/2006	Security Technology (see Note 1)	Next payment due: 10/6/00
	GREECE	0218305		10/6/86	5/6/92	10/6/2006	Security Technology (see Note 1)	Next payment due: 10/6/00
	G BRITAIN	0218305		10/6/86	5/6/92	10/6/2006	DigiCash Incorporated	Next payment due: 10/6/00
	ITALY	0218305		10/6/86	5/6/92	10/6/2006	Security Technology (see Note 1)	Next payment due: 10/6/00
	LUXEM.	0218305		10/6/86	5/6/92	10/6/2006	Security Technology (see Note 1)	Next payment due: 10/6/00
	AUSTRIA	0218305		10/6/86	5/6/92	10/6/2006	Security Technology (see Note 1)	Next payment due: 10/6/00

**eCash Technologies, Inc.  
U.S. and Foreign Patents and Patent Applications**

**BLIND UNANTICIPATED SIGNATURE SYSTEMS (CONT.)**

TITLE	COUNTRY	PATENT NUMBER	SERIAL NUMBER	FILING DATE	GRANT DATE	EXPIRATION DATE	RECORD OWNER	STATUS OF PATENT
	SPAIN	0218305		10/6/86	5/6/92	10/6/2006	Security Technology (see Note 1)	Next payment due: 10/6/00
	SWEDEN	0218305		10/6/86	5/6/92	10/6/2006	Security Technology (see Note 1)	Next payment due: 10/6/00
	GERMANY	P3685186.8		10/6/86	5/6/92	10/6/2006	Security Technology (see Note 1)	Next payment due: 10/6/00

**eCash Technologies, Inc.  
U.S. and Foreign Patents and Patent Applications**

**BLIND SIGNATURE SYSTEMS**

TITLE	COUNTRY	PATENT NUMBER	SERIAL NUMBER	FILING DATE	GRANT DATE	EXPIRATION DATE	RECORD OWNER	STATUS OF PATENT
BLIND SIGNATURE SYSTEMS	U.S.	4,759,063	06/524,896	8/22/83	7/19/88	7/19/2005	eCash Technologies, Inc.	ALL FEES PAID
	NETH.	0139313		8/13/84	7/8/92	8/13/2004	DigiCash Incorporated	Next payment due: 8/13/00
	SWITZ.	0139313		8/13/84	7/8/92	8/13/2004	Security Technology (see Note 1)	Next payment due: 8/13/00
	BELGIUM	0139313		8/13/84	7/8/92	8/13/2004	DigiCash Incorporated	Next payment due: 8/13/00
	FRANCE	0139313		8/13/84	7/8/92	8/13/2004	Security Technology (see Note 1)	Next payment due: 8/13/00
	G BRITAIN	0139313		8/13/84	7/8/92	8/13/2004	DigiCash Incorporated	Next payment due: 8/13/00
	ITALY	0139313		8/13/84	7/8/92	8/13/2004	Security Technology (see Note 1)	Next payment due: 8/13/00
	AUSTRIA	0139313		8/13/84	7/8/92	8/13/2004	Security Technology (see Note 1)	Next payment due: 8/13/00
	SWEDEN	0139313		8/13/84	7/8/92	8/13/2004	Security Technology (see Note 1)	Next payment due: 8/13/00
	GERMANY	P3485804.0		8/13/84	7/8/92	8/13/2004	Security Technology (see Note 1)	Next payment due: 8/13/00

**eCash Technologies, Inc.  
U.S. and Foreign Patents and Patent Applications**

**CRYPTOGRAPHIC IDENTIFICATION, FINANCIAL TRANSACTION, AND CREDENTIAL DEVICE**

TITLE	COUNTRY	PATENT NUMBER	SERIAL NUMBER	FILING DATE	GRANT DATE	EXPIRATION DATE	RECORD OWNER	STATUS OF PATENT
CRYPTOGRAPHIC IDENTIFICATION, FINANCIAL TRANSACTION, AND CREDENTIAL DEVICE	U.S.	4,529,870	06/392,271	6/25/82	7/16/85	7/16/2002*	eCash Technologies, Inc.	ALL FEES PAID

\*17 years from grant date. This is a Continuation of Ser. No. 129,173, 3/10/80, abandoned.

**PARTITIONED INFORMATION STORAGE SYSTEMS WITH CONTROLLED RETRIEVAL**

TITLE	COUNTRY	PATENT NUMBER	SERIAL NUMBER	FILING DATE	GRANT DATE	EXPIRATION DATE	RECORD OWNER	STATUS OF PATENT
PARTITIONED INFORMATION STORAGE SYSTEMS WITH CONTROLLED RETRIEVAL	U.S.	5,956,400	08/684,263	7/19/96	9/21/99	7/19/2016	eCash Technologies, Inc.	Next payment due: 3/20/03



**eCash Technologies, Inc.  
U.S. and Foreign Patents and Patent Applications**

**MULTI-PURPOSE TRANSACTION CARD SYSTEM**

TITLE	COUNTRY	PATENT NUMBER	SERIAL NUMBER	GRANT DATE	FILING DATE	EXPIRATION DATE <sup>4</sup>	RECORD OWNER	STATUS OF PATENT
MULTI-PURPOSE TRANSACTION CARD SYSTEM	U.S.		08/909,480		8/11/97		eCash Technologies, Inc.	Pending
	EPO [for all EPO countries]		95091024.1		2/13/95		DigiCash Incorporated	Pending Next payment due: 2/13/01
	JAPAN		8-524904		2/13/95		DigiCash Incorporated	Pending
	AUSTRALIA		18425/95		2/13/95		DigiCash Incorporated	Pursuing Revival Next payment due: 2/13/01
	AUSTRALIA		40408/00 [Division of 18425/95]		6/16/00		eCash Technologies, Inc.	Pending Next payment due: 2/13/02
	CANADA		2,218,178		2/13/95		DigiCash Incorporated	Pending Next payment due: 2/13/01

<sup>4</sup> Subject to verification of priority, if any.