PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 Assignment ID: PATI437864

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date				
NCR Corporation	10/03/2023				

RECEIVING PARTY DATA

Company Name:	Cardtronics USA, Inc.
Street Address: 864 Spring St. NW	
City:	Atlanta
State/Country:	GEORGIA
Postal Code:	30308

PROPERTY NUMBERS Total: 39

Property Type	Number
Patent Number:	10318849
Patent Number:	8754856
Patent Number:	8570281
Patent Number:	8504476
Patent Number:	8086018
Patent Number:	7957577
Patent Number:	7720313
Patent Number:	7711176
Patent Number:	7637423
Patent Number:	7490759
Patent Number:	7421107
Patent Number:	7391934
Patent Number:	7066669
Patent Number:	7066668
Patent Number:	10565614
Patent Number:	9053600
Patent Number:	8850181
Patent Number:	8826409
Patent Number:	8572753
Patent Number:	7800088

PATENT REEL: 068617 FRAME: 0001

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Property Type	Number
Patent Number:	7699230
Patent Number:	7501646
Patent Number:	7488954
Patent Number:	7462840
Patent Number:	7378675
Patent Number:	7262420
Patent Number:	7256398
Patent Number:	7129506
Patent Number:	11922783
Patent Number:	11475398
Patent Number:	11462083
Patent Number:	11457357
Patent Number:	10957102
Patent Number:	10824988
Patent Number:	8805014
Patent Number:	8320633
Patent Number:	7024396
Application Number:	17952550
Application Number:	18397242

CORRESPONDENCE DATA

Fax Number:

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.

Phone: 6123736900

Email: request@slwip.com

Correspondent Name: Schwegman Lundberg & Woessner, P.A.

Address Line 1: P.O. Box 2938

Address Line 4: Minneapolis, MINNESOTA 55402

ATTORNEY DOCKET NUMBER:	1592.000001
NAME OF SUBMITTER:	Kasie Lang
SIGNATURE:	Kasie Lang
DATE SIGNED:	08/19/2024

Total Attachments: 154

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NCR CORPORATION

and

CARDTRONICS USA, INC.

INTELLECTUAL PROPERTY ASSIGNMENT AND LICENSE AGREEMENT

THIS INTELLECTUAL PROPERTY ASSIGNMENT AND LICENSE AGREEMENT ("Agreement") is effective as of October 3, 2023

BETWEEN:

- (1) **NCR CORPORATION**, a Maryland corporation, having offices at 864 Spring St. NW, Atlanta, Georgia 30308 ("**Assignor**" or "**NCR**"); and
- (2) **CARDTRONICS USA, INC.**, a Delaware corporation, having offices at 864 Spring St. NW, Atlanta, Georgia 30308 ("**Assignee**").

WHEREAS:

- (A) Around the same time as the execution of this Agreement, NCR obtained ownership to certain Intellectual Property from certain other members of the NCR Group pursuant to Distribution, Professional Services, and Contract Research & Development Agreements by and between NCR and each such member, with all such agreements being deemed to be effective prior to this Agreement;
- (B) The Parties (defined below) wish to assign and/or license certain Intellectual Property (defined below) relevant to the business of the other Party (defined below) and/or the other members of such other Party's Group (defined below) to the other Party and/or the other members of such Party's Group pursuant to separate assignment and/or license related agreements;
- (C) Assignor and the other members of the NCR Group own ATMCo Relevant Intellectual Property (defined below); and
- (D) In accordance with (B), Assignor on behalf of itself and the other members of the NCR Group (defined below) wishes to (i) assign to Assignee, and Assignee wishes to acquire from Assignor and the other members of the NCR Group, the ATMCo Relevant Intellectual Property, and (ii) license certain Intellectual Property relevant to the business of Assignee and the other members of the ATMCo Group (defined below) to Assignee and the other members of the ATMCo Group for use in carrying out their business, as specified herein.

WHEREBY IT IS AGREED AS FOLLOWS:

This Agreement (including in conjunction with that certain Intellectual Property License Agreement between ATMCo (defined below) and NCR licensing certain Intellectual Property of ATMCo and the other members of the ATMCo Group, including Assignee, to NCR and the other members of the NCR Group, executed around the same time as this Agreement) provides the Parties with good and valuable consideration, the sufficiency of which the Parties hereby acknowledge.

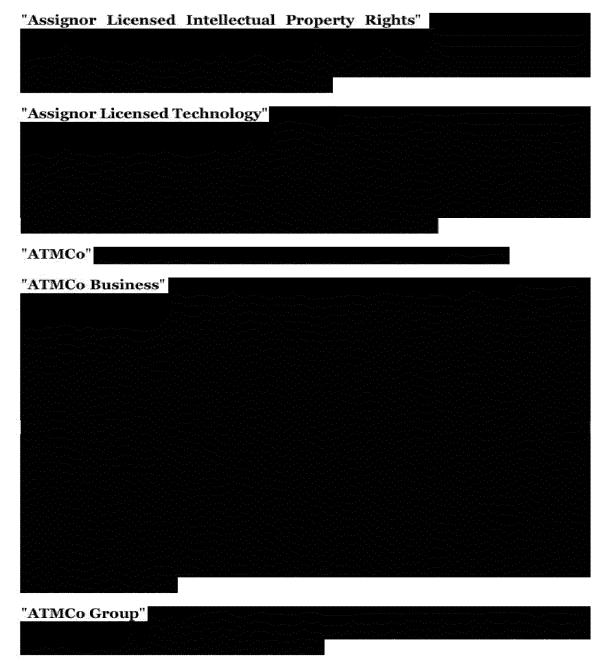
1. DEFINITIONS

In this Agreement the following definitions apply:

"Affiliate" means, with respect to any specified Person, any other Person that directly, or indirectly through one or more intermediaries, controls, is controlled by or is under common control with, such specified Person. As used herein, "control" means the possession, directly or indirectly, of the power to direct or cause the direction of the management and policies of such Person.

"Assigned Intellectual Property" means ATMCo Relevant Intellectual Property.

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"ATMCo Relevant Intellectual Property" means all Intellectual Property owned by Assignor or any of the other members of the NCR Group as of the Effective Date

hich Intellectual Property includes (i) the Technology set forth in Schedule A(i), and (ii) notwithstanding anything to the contrary in this Agreement, with respect to Patents, Patent Applications, registered Marks, applications to register Marks, registered copyrights and applications to register copyrights ("**Registered IPR**"), only the Registered IPR set forth in Schedule A(ii) (which Schedules are incorporated herein by reference).

"Effective Date" means the effective date of this Agreement as specified above.

"Group" means the NCR Group and/or the ATMCo Group, as the context requires.

"Improvements" means modifications, improvements, enhancements and derivatives (including derivative works).

"Information Statement"

"Intellectual Property" means Technology and Intellectual Property Rights.

"Intellectual Property Rights" means, on a worldwide basis, all Patents, copyrights, Marks, know-how related rights, trade secrets and other confidential information related rights, data and database rights and other intellectual and industrial property rights (including those related to Technology) and similar and equivalent rights to any of the foregoing.

"Marks" means, on a worldwide basis, all trademarks, service marks, trade names, business (including product and service) brands and names, logos, symbols and slogans, trade dress, domain names, social media handles and names, and other identifiers and similar items and all associated goodwill.

"NCR Group"

"Party" means Assignor or Assignee individually, as the case may be; and "Parties" means Assignor and Assignee collectively.

"Patent Applications" means, on a worldwide basis, all applications to obtain a Patent, including provisionals, continuations, divisionals, continuations-in-part, and re-examination and reissue applications. Patent Applications shall also include any Patent Application that is filed for an invention disclosed in a formal Invention Disclosure Record ("IDR") submitted via NCR's IDR portal during the three (3) years prior to the Effective Date for which a Patent Application has not been filed prior to the Effective Date, including those for which a filing decision has not been made as of the Effective Date.

"Patents" means, on a worldwide basis, all national, regional, international and any other patents (including utility patents and models, design patents and patents arising from any Patent Applications), including any extensions, renewals and substitutions thereof or therefor.

"**Person**" means any natural person, corporation, general or limited partnership, limited liability company or partnership, joint stock company, joint venture, association, trust, bank, trust company, land trust, business trust or other organization, whether or not a legal entity, and any governmental authority.

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"Registration Statement"

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"Subsidiary" means with respect to any Person (i) a corporation, fifty percent (50%) or more of the voting or capital stock of which is, as of the time in question, directly or indirectly owned by such Person and (ii) any other partnership, joint venture, association, joint stock company, trust, unincorporated organization or other entity in which such Person, directly or indirectly, owns fifty percent (50%) or more of the equity or economic interest thereof or has the power to elect or direct the election of fifty percent (50%) or more of the members of the governing body of such entity or otherwise has control over such entity (e.g., as the managing partner of a partnership).

"Technology" means, on a worldwide basis, in whatever form or medium (including in writing, electronic or any other tangible or intangible form or medium), all discoveries, ideas, concepts, creations, inventions, invention disclosures, innovations, developments, research and development (including plans, studies, data, results, and associated notes and notebooks), Improvements, trade secrets and other confidential information, know-how, designs, plans, specifications, schematics, diagrams, charts (including flow charts), drawings, blueprints, manuals, mask works, protocols, methods, processes, techniques, methodologies, algorithms, formulae, features, functions, interfaces (including APIs and GUIs), software (whether in source code, object code or any other form) and related databases and documentation, arrangements, structures and appearances (including of non-copyrightable elements, features, functions and interfaces), data and data works, and other works of authorship, technology and intellectual or industrial property (including information, data, documentation and materials), whether proprietary or not.

2. ASSIGNMENT

2.1 Assignment of Assigned Intellectual Property

Subject to the terms and conditions of this Agreement, Assignor on behalf of itself and the other members of the NCR Group hereby assigns (and to the extent Assignor does not have the right or authority to do so on behalf of one or more of the other members of the NCR Group, it will ensure each such other member assigns), as of the Effective Date, to Assignee all of their right, title and interest in and to the Assigned Intellectual Property, which for clarity includes all of the rights of action, powers and benefits thereof, including the right to register, transfer, license, use (including to make Improvements), and otherwise exploit, and to obtain damages and other relief for any infringement or misappropriation (whether past, present or future) of the Assigned Intellectual Property.

2.2 Assistance

Upon Assignee's request, Assignor shall deliver to Assignee, or grant Assignee access to obtain, the Assigned Intellectual Property (including information, documents and materials that are included in the Assigned Intellectual Property), including as Assignee requires to receive the benefits of or exercise its rights with respect to the Assigned Intellectual Property. Assignor will provide Assignee with such assistance as Assignee reasonably requests (including executing documentation and providing whatever documents, information and materials are in Assignor's possession or are otherwise reasonably available to Assignor), at Assignee's cost for reasonable out-of-pocket expenses of Assignor, to enable Assignee to obtain, establish, secure and perfect Assignee's ownership rights in and to the Assigned Intellectual Property.

3. LICENSE

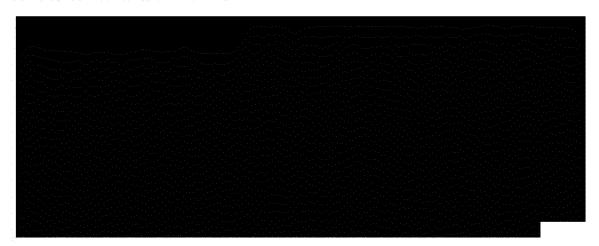
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4. DISCLAIMER OF REPRESENTATIONS AND WARRANTIES



5. LIMITATION ON LIABILITY



6. MISCELLANEOUS

6.1 Notice

Any notice under this Agreement shall be in writing and shall be delivered personally, sent by registered or certified mail, or sent by email, to the relevant Party, at its address set out in the first paragraph of this Agreement or at such other address or email address as may be provided by written notice pursuant to this Section 6.1 to that Party after the Effective Date.

6.2 Captions

Titles and captions of articles, sections, clauses and paragraphs contained in this Agreement are included only as a matter of convenience and for reference, and in no way define, limit, extend or describe the scope of this Agreement, its terms and conditions (including how they should be interpreted), or the intent of any provisions hereof.

6.3 Severance

6.4 Waiver

6.5 Applicable Law

This Agreement will be interpreted and construed under the laws of the State of Maryland without regard to its conflict of laws principles.

6.6 Entire Agreement

This Agreement constitutes the entire agreement and understanding between the Parties with respect to the subject matter hereof and supersedes all previous agreements, promises, assurances, warranties, representations, discussions and understandings between them, whether written, oral or otherwise, with respect to the subject matter of this Agreement.

6.7 Amendment

No change, modification or amendment of this Agreement shall be valid or binding on any Party unless it is in writing signed by both Parties.

6.8 Counterparts

This Agreement may be executed in more than one counterparts, all of which shall be considered one and the same agreement. Execution of this Agreement or any other documents pursuant to this Agreement by email attaching DocuSign or other electronic copy of a signature shall be deemed to be, and shall have the same effect as if it was, executed by an original signature.

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IN WITNESS WHEREOF, this Agreement has been executed by the Parties effective as of the Effective Date.

SIGNED for and on behalf of

NCR CORPORATION

By: V. Sancer

Name: Vladimir Samoylenko

Title: Assistant Secretary

SIGNED for and on behalf of

CARDTRONICS USA, INC.

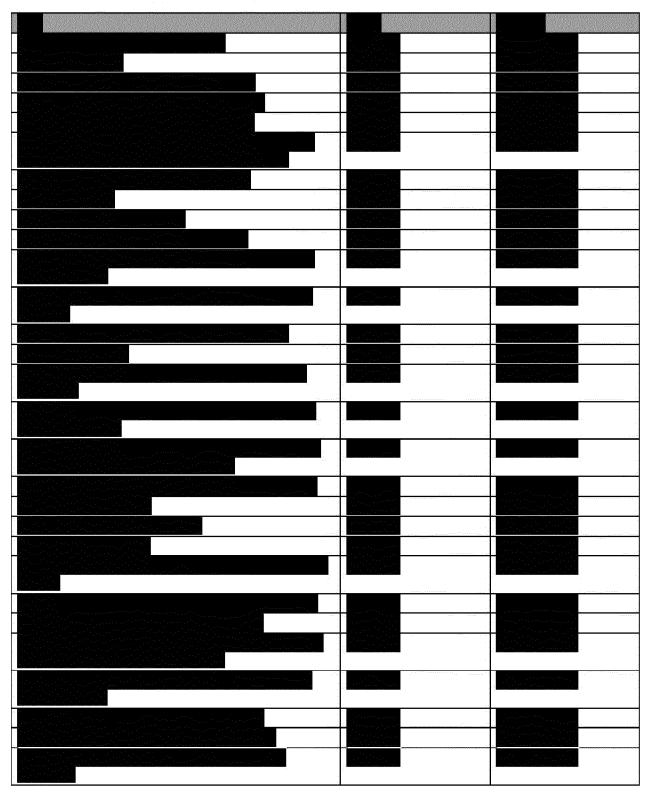
Name: Vladimir Samoylenko

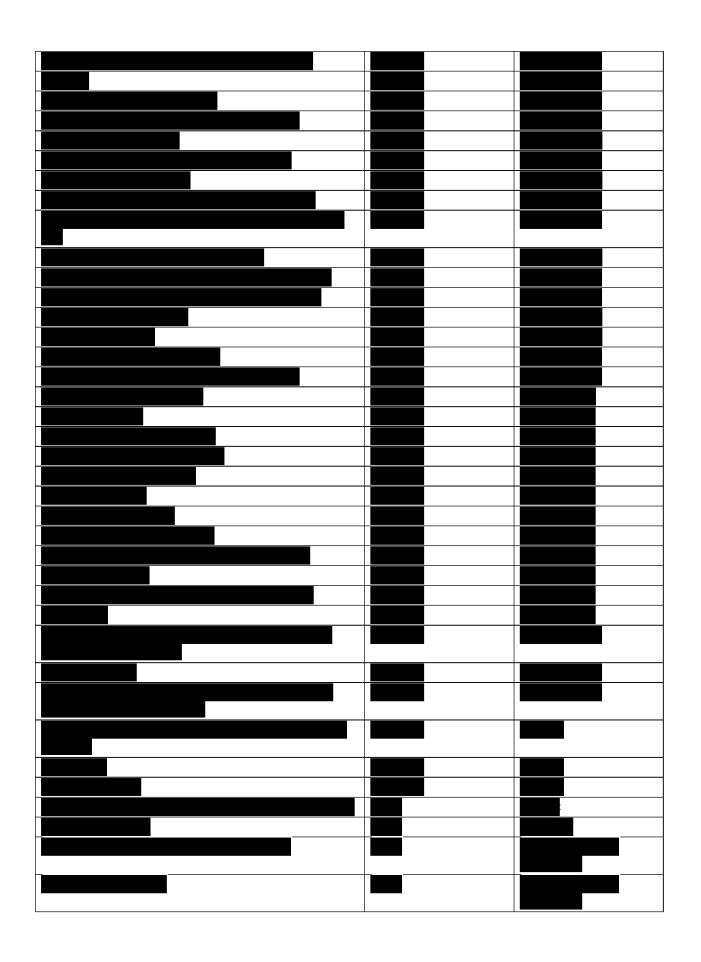
Title: Director and President

Schedule A(i)

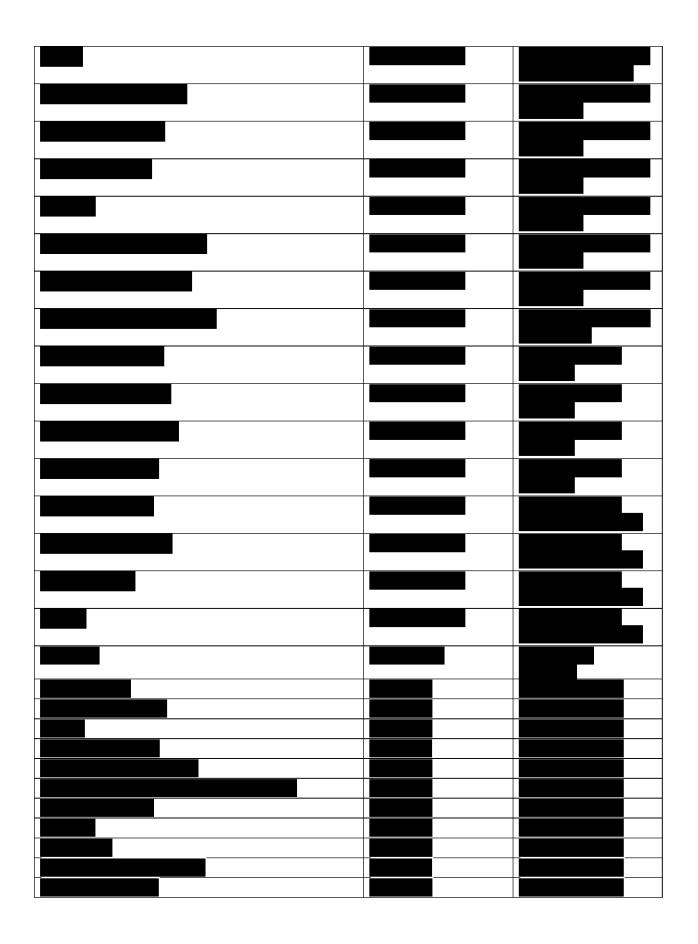
Technology

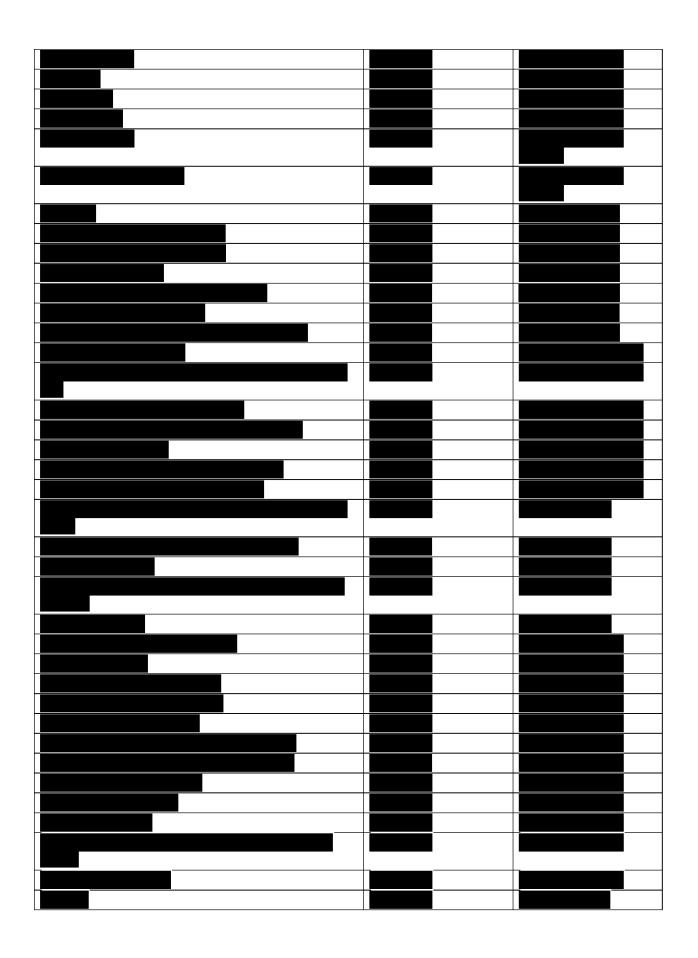
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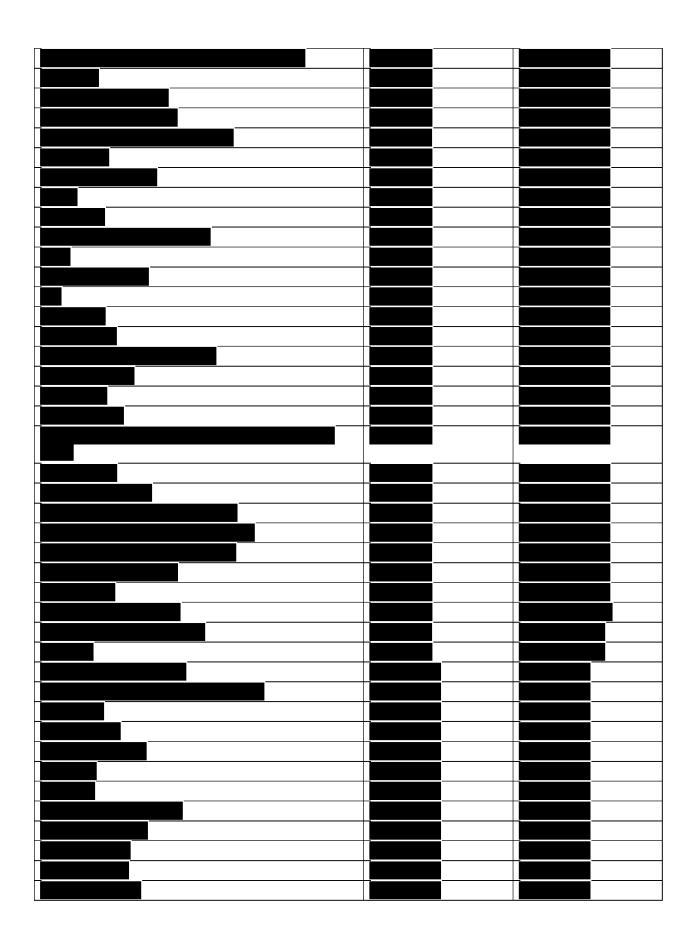


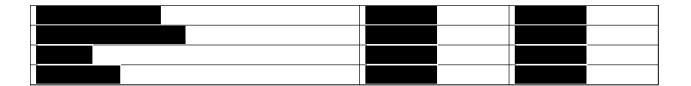












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Schedule A(ii)

Worldwide Patents:

Code	Name Name	Application Number	Number	Time
US	United States	08/220,756	6,285,988	AUTOMATED TELLER MACHINES
US	United States	08/778,337	5,910,986	METHODS AND APPARATUS FOR SENDING ELECTRONIC DATA SIGNALS
US	United States	08/778,340	6,021,400	MULTI-STAGE TRANSACTION EXECUTED FROM MULTIPLE ATMS
US	United States	08/778,342	5,963,669	METHOD OF EXTRACTING RELEVANT CHARACTER INFORMATION FROM GRAY SCALE IMAGE DATA FOR CHARACTER RECOGNITION
US	United States	08/778,343	5,746,140	IMPROVED SECURITY CONTAINER
US	United States	08/787,415	5,915,246	IMPROVED SELF-SERVICE SYSTEM
US	United States	08/804,647	6,000,620	MAGNETIC CARD READER
US	United States	08/804,648	5,852,977	SELF SERVICE PRINT TERMINAL
US	United States	08/822,876	5,861,646	METHOD OF PROCESSING DOCUMENTS MOVING ALONG A TRANSPORT PATH OF A DOCUMENT PROCESSING SYSTEM AND AN APPARATUS THEREFOR
US	United States	08/837,255	5,861,614	SELF-SERVICE TERMINAL AND METHOD OF PERFORMING A MAINTENANCE OPERATION OF A CARD READER OF A SELF-SERVICE TERMINAL

PATENT

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United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
08/886,484	08/886,483	08/886,482	08/883,476	08/883,475	08/883,474	08/883,473	08/883,472	08/837,259	08/837,258	08/837,257	08/837,256	Application Number
5,918,748	6,510,985	5,945,602	5,984,179	6,073,837	5,915,681	5,936,557	5,929,426	5,890,710	5,890,712	5,929,413	5,890,709	Patent Number
AUTOMATIC TELLER MACHINES	AUTOMATIC TELLER MACHINES	MEDIA HANDLING APPARATUS	CARD READER/WRITER WITH PIVOTING READ/WRITE CONTACT HEAD	AUTOMATED TELLER MACHINE INCLUDING A MECHANISM WHICH RETRACTS A STACK OF CURRENCY NOTES WHICH HAS BEEN PRESENTED TO A USER	SHEET HANDLING APPARATUS	KEYPAD	MAGNETIC CARD SENSOR	DOCUMENT FEEDER APPARATUS	FEEDER TRAY	SELF-SERVICE TERMINAL (SST) AND METHOD OF OPERATING THE SST TO CONTROL MOVEMENT OF A CARD OF THE SST	DOCUMENT PICKER APPARATUS	Title

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08/950,232	08/950,231	08/950,230	08/924,448	08/919,650	08/902,998	08/893,342	08/893,341	08/893,340	08/892,321	08/892,320	08/886,485	Application Number
6,151,132	5,987,431	6,741,973	5,834,863	6,236,745	6,203,000	6,164,529	5,962,830	5,965,865	5,988,634	6,209,099	6,003,019	Patent Number
METHOD OF IMPROVING ASSISTANCE TO AN OPERATOR DURING JAM RECOVERY IN AN ITEM PROCESSING SYSTEM	SELF-SERVICE DEPOSIT METHOD AND APPARATUS	CONSUMER MODEL	ELECTROMAGNETIC ACTUATORS	METHOD AND APPARATUS FOR SCREENING DOCUMENTS	ESCROW STORAGE DEVICE	SELF SERVICE TERMINAL	SELF SERVICE TERMINAL	SYSTEM FOR DETECTING MULTIPLE SUPERPOSED SHEETS	APPARATUS FOR DETECTING THE PASSAGE OF MULTIPLE SUPERPOSED SHEETS ALONG A FEED PATH	SECURE DATA PROCESSING METHOD AND SYSTEM	MULTI-TRANSACTION SERVICE SYSTEM	Title

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09/071,613	09/063,125	09/063,124	09/061,312	09/023,473	09/022,805	09/022,804	09/020,699	09/014,474	08/994,700	08/994,696	08/961,845	Application Number
6,237,524	6,378,770	6,029,971	6,032,779	6,135,440	5,974,883	6,094,500	7,028,193	6,518,994	6,411,737	6,032,946	6,124,561	Patent Number
POSITION FLAG FOR MANUALLY USABLE MEANS	AUTOMATED TELLER MACHINES AND METHOD OF REPLENISHING THE SAME	SHEET FEEDING APPARATUS	CONTROL OF MAGNETIC PRINTED SHEETS	SHEET FEEDING APPARATUS	SYSTEM FOR AUTHENTICATING PRINTED DOCUMENTS	APPARATUS FOR AUTHENTICATING SHEETS	METHOD AND APPARATUS FOR DETERMINING THE VALIDITY OF A DATA PROCESSING TRANSACTION CONV PRIORITY	VIDEO CALL DISTRIBUTION	METHOD OF SELECTING ONE OF A PLURALITY OF BINARIZATION PROGRAMS	DOCUMENT FEEDER	PARALLEL DOCUMENT BUFFER AND METHOD OF BUFFERING DOCUMENTS	Tide

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09/122,505	09/114,090	09/114,088	09/114,085	09/108,716	09/097,834	09/093,701	09/082,852	09/081,236	09/079,740	09/079,739	09/079,492	Application Number
6,196,464	6,029,888	6,155,556	5,969,320	6,825,940	6,240,515	6,089,561	5,999,097	5,988,631	5,905,640	6,032,948	6,068,255	Patent Number
DOCUMENT ROUTING MECHANISM	CARD READER	DOCUMENT FEEDING APPARATUS	A KEYBOARD HAVING LIQUID RESISTANT GAS PERMEABLE LAYER AND VENTING APERATURE	METHOD OF PROCESSING DOCUMENTS IN AN IMAGE- BASED DOCUMENT PROCESSING SYSTEM AND AN APPARATUS THEREFOR	METHOD OF AUTHENTICATING A MAGNETIC CARD	DOCUMENT FEEDER	ELECTRICAL LEAD AND FINANCIAL TERMINAL INCLUDING THE LEAD	SHEET TRANSPORT DEVICE	SECURITY VIA HOLE(S) FOR PRINTED CIRCUIT BOARDS	APPARATUS FOR STACKING SHEETS	DOCUMENT TRANSPORT APPARATUS	Tide

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09/231,497	09/231,496	09/229,046	09/207,974	09/193,953	09/181,151	09/178,672	09/177,746	09/176,510	09/144,868	09/123,692	09/122,506	Application Number
6,196,463	6,449,032	7,545,816	6,301,386	6,211,930	7,053,923	6,504,946	6,199,754	6,012,050	6,385,175	5,964,541	6,082,732	Patent Number
CARD READER	SHEET RECOGNITION SYSTEM	TRANSACTION PROCESSING SYSTEMS MAINTENANCE	METHODS AND APPARATUS FOR GRAY IMAGE BASED TEXT IDENTIFICATION	VISUAL DISPLAYS	ESTABLISHING AUDIO COMMUNICATION DURING INITIALIZATION OF VIDEO CONFERENCE CALLS	METHOD OF PROCESSING MISORIENTED ITEMS IN AN IMAGE-BASED ITEM PROCESSING SYSTEM AND AN APPARATUS THEREFOR	SELF-SERVICE TERMINAL	MULTI-TRANSACTION SERVICE SYSTEM	METHOD AND SYSTEM FOR ROUTING AGENT PROGRAMS THROUGH A COMMUNICATIONS NETWORK	THERMAL PRINTER APPARATUS	SYSTEM FOR DETECTING SUPERPOSED SHEETS	Title

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United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
09/335,804	09/329,102	09/324,633	09/324,632	09/324,631	09/324,630	09/324,629	09/324,326	09/307,529	09/305,879	09/292,893	09/292,892	Application Number
6,424,845	6,578,760	6,360,945	6,253,603	6,276,603	6,241,150	6,196,457	6,225,902	6,425,487	6,237,847	6,370,266	6,585,775	Patent Number
PORTABLE COMMUNICATION DEVICE	CHECK CASHING AT AUTOMATED TELLER MACHINES	DATA SECURITY ARRANGEMENT	APPARATUS FOR CHECKING THE CONDITION OF DOCUMENTS	SHEET DISPENSING MECHANISM	SHEET DISPENSING MECHANISM	SHEET DISPENSING MECHANISM	AUTOMATIC TELLER MACHINES	WASTE DEPOSITORY	ETS	FINANCIAL DOCUMENT PROCESSING SYSTEM AND METHOD OF OPERATING A FINANCIAL DOCUMENT PROCESSING SYSTEM TO VERIFY ZONE COORDINATES PA	FINANCIAL DOCUMENT PROCESSING SYSTEM AND METHOD OF OPERATING A FINANCIAL DOCUMENT PROCESSING SYSTEM DURING THE EXCEPTION RECOVERY	Tide

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United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
09/433,140	09/433,138	09/433,136	09/433,135	09/433,134	09/433,133	09/433,131	09/427,649	09/388,811	09/378,887	09/374,182	09/337,096	Application Number
6,533,170	6,484,936	6,241,151	7,194,414	7,158,952	6,760,796	6,593,915	6,561,419	6,559,882	6,498,603	6,398,108	7,206,759	Patent Number
USER INTERFACE FOR A SELF-SERVICE TERMINAL	TERMINAL	SELF SERVICE TERMINAL	SELF-SERVICE TERMINAL	SELF-SERVE TERMINALS	SMART CARD AND METHOD OF OPERATING THE SMART CARD	SELF-SERVICE TERMINAL	MAGNETIC CODE READING DEVICE AND MAGNETIC CODE READING METHOD	DOMESTIC APPLIANCE	SURFACE WAVE TOUCHSCREEN	MACHINE FOR DISPENSING MEDIA	CASH TRANSACTION VERIFICATION AND CREDITING APPARATUS	Tide

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United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
09/522,085	09/513,566	09/495,760	09/495,759	09/482,667	09/481,768	09/481,767	09/481,766	09/481,764	09/456,097	09/433,142	09/433,141	Application Number
7,716,133	6,556,188	6,626,357	6,968,315	6,494,363	6,540,136	6,536,663	7,103,618	6,361,043	6,092,723	6,484,938	6,402,025	Patent Number
SELF SERVICE TERMINAL	THREE-DIMENSIONAL CHECK IMAGE VIEWER AND A METHOD OF HANDLING CHECK IMAGES IN AN IMAGE- BASED CHECK PROCESSING SYSTEM	SELF-SERVICE TERMINAL	METHOD AND APPARATUS FOR ADVERTISING OVER A COMMUNICATIONS NETWORK	SELF-SERVICE TERMINAL	REPLENISHMENT ARRANGEMENTS FOR AUTOMATED TELLER MACHINES	SELF-SERVICE KIOSK WHICH DISPENSES VOUCHERS	DATA WAREHOUSE APPLICATIONS FOR NETWORKS OF SELF-SERVICE MACHINES	SHEET DISPENSER MECHANISM	CARD READER	SELF-SERVICE TERMINAL	DISPENSING CONTAINER	Tide

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United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
09/587,735	09/585,066	09/577,741	09/573,097	09/573,096	09/570,622	09/564,510	09/551,755	09/551,374	09/550,192	09/541,344	09/538,977	Application Number
6,630,941	6,390,360	6,587,585	7,035,822	6,587,576	7,602,909	6,454,570	6,434,986	6,296,079	7,131,108	6,367,695	6,583,864	Patent Number
SELF-SERVICE TERMINAL	COIN DISPENSER	METHOD OF PARAMETERIZING A THRESHOLD CURVE FOR A BINARIZATION PROGRAM AND AN APPARATUS THEREFOR	SELF-SERVICE TERMINAL	METHOD OF QUANTIFYING THE QUALITY OF A GRAY SCALE IMAGE OF A DOCUMENT AND AN APPARATUS THEREFOR	SELF-SERVICE TERMINAL	MONEY STORAGE DEVICE, SYSTEM AND METHOD OF OPERATING A BANK ACCOUNT AND BANK ACCOUNT	LOCK PROTECTION	SELF-SERVICE TERMINALS	SOFTWARE DEVELOPMENT SYSTEM HAVING PARTICULAR ADAPTABILITY TO FINANCIAL PAYMENT SWITCHES	SELF SERVICE TERMINAL	SELF SERVICE TERMINAL	Tide

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US	US	US	US	US	US	US	Sn	Sn	US	US	US	Country Code
United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
09/651,979	09/651,978	09/637,200	09/636,834	09/629,735	09/628,203	09/612,680	09/589,696	09/589,695	09/589,694	09/589,693	09/589,692	Application Number
7,545,930	6,757,419	6,457,639	6,478,221	7,383,213	6,665,660	6,491,216	6,400,276	6,422,475	6,460,771	6,357,657	6,390,367	Patent Number
PORTABLE TERMINAL	IMAGING SYSTEM	MEDIA PROCESSING	SELF-SERVICE TERMINALS	APPARATUS AND METHOD FOR MAINTAINING A CHILDREN'S AUTOMATED BANK ACCOUNT	SYSTEM FOR RETRIEVING MIGRATORY DATA ITEMS USING URLS	SECURITY SYSTEM	SELF SERVICE TERMINAL	SELF-SERVICE TERMINAL	MOTORIZED CARD READER MODULE	ANTI-FRAUD DEVICE	FRAUD PREVENTION ARRANGEMENT	Tide

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United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Name Name
09/704,066	09/703,273	09/691,553	09/679,587	09/679,586	09/679,585	09/666,658	09/666,656	09/666,655	09/651,983	09/651,982	09/651,981	Application Number
7,577,903	6,823,172	7,519,653	6,357,881	6,427,998	6,557,757	6,539,400	6,690,402	6,917,722	7,340,415	6,850,923	6,741,975	Patent Number
DEFINING A PROCESS BY A PLURALITY OF PAGES DEFINED IN A MARK-UP LANGUAGE	SELF-SERVICE TERMINAL	SELF-SERVICE TERMINALS	SECURITY SCREEN FOR SELF-SERVICE TERMINALS	REPLENISHMENT ARRANGEMENTS FOR AUTOMATED TELLER MACHINES	SELF-SERVICE TERMINAL	INFORMATION GATHERING AND PERSONALIZATION TECHNIQUES	INFORMATION RETRIEVAL AND DISPLAY	CREATION, TRANSMISSION AND RETRIEVAL OF INFORMATION	ADAPTIVE, PREDICTIVE SYSTEM FOR REPLENISHING CURRENCY IN ATMS	EXPERT SYSTEM	EXPERT SYSTEM	Tille

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United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
09/826,679	09/826,612	09/826,611	09/815,352	09/804,174	09/795,721	09/780,696	09/716,191	09/716,190	09/710,343	09/710,342	09/710,333	Application Number
6,605,819	8,321,344	6,588,659	6,494,364	6,588,664	7,219,083	7,577,612	6,402,273	6,540,226	6,847,937	7,229,007	6,685,086	Patent Number
MEDIA VALIDATION	SELF-SERVICE TERMINAL	CARD READER MODULE	SELF-SERVICE TERMINAL	NETWORK OF SELF-SERVICE TERMINALS	CURRENCY SYSTEM	SELF SERVICE TERMINAL	CABINET WITH PIVOTED FOOTREST	APPARATUS FOR A DOCUMENT PROCESSING SYSTEM	SELF-SERVICE TERMINAL	SELF-SERVICE TERMINAL	SELF-SERVICE TERMINAL	Tide

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United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
09/925,944	09/912,060	09/891,921	09/885,515	09/879,675	09/871,933	09/871,928	09/848,004	09/848,003	09/848,002	09/835,504	09/826,680	Application Number
7,546,274	6,516,998	6,454,163	6,868,412	6,805,285	6,655,677	6,763,999	7,514,646	7,637,420	6,862,461	6,912,297	7,739,144	Patent Number
SYSTEM AND METHOD FOR FACILITATING ELECTRONIC COMMERCE TRANSACTIONS AT AN AUTOMATIC TELLER MACHINE	SELF-SERVICE TERMINAL	SELF-SERVICE TERMINAL	MEANS FOR AND METHOD OF DISPLAYING A VISUAL DECISION TREE MODEL	SELF-SERVICE TERMINAL	ACTIVE GAP CONTROLLED FEEDER	SELF-SERVICE TERMINAL	METHODS AND APPARATUS FOR WIRELESS DISPLAY UNITS FOR DOCUMENT TRAYS IN FINANCIAL DOCUMENT PROCESSING	SELF-SERVICE TERMINAL	METHODS AND APPARATUS FOR WIRELESS OPERATOR NOTIFICATION IN DOCUMENT PROCESSING SYSTEMS	METHOD OF DETERMINING USABILITY OF A DOCUMENT IMAGE AND AN APPARATUS THEREFOR	SELF-SERVICE TERMINAL	Tide

RETRACTABLE TRACK IDLER APPARATUS FOR USE IN A DOCUMENT PROCESSING SYSTEM	6,595,516	09/992,185	United States	US
INFORMATION SYSTEM	6,810,394	09/978,503	United States	US
SELF-SERVICE TERMINALS AND SELF-SERVICE NETWORKS	7,680,689	09/966,026	United States	US
SELF-SERVICE TERMINAL	6,626,426	09/966,025	United States	US
SELF-SERVICE TERMINAL	7,603,315	09/966,023	United States	US
TRACK BOTTOM APPARATUS FOR USE IN A DOCUMENT PROCESSING SYSTEM	6,585,261	09/952,698	United States	Sn
SELF-SERVICE TERMINAL	6,840,441	09/951,986	United States	US
MEDIA CASSETTE	6,513,444	09/951,745	United States	US
EVALUATION SYSTEM	6,990,474	09/943,161	United States	SN
CARD READER MODULE	6,729,538	09/943,160	United States	US
DOWNLOADING AND UPLOADING DATA IN INFORMATION NETWORKS	7,099,927	09/943,118	United States	US
DOWNLOADING AND UPLOADING DATA IN INFORMATION NETWORKS	7,159,013	09/943,113	United States	Sn
Tide	Patent Number	Application Number	Country Name	Country Code

) TAG AND A	RADIO FREQUENCY IDENTIFICATION (RFID) TAG AND A METHOD OF OPERATING AN RFID TAG	7,002,474	10/197,389	United States	US
	CARD READER	6,761,310	10/143,677	United States	US
	SELF-SERVICE TERMINAL	7,100,818	10/101,580	United States	US
	ADVERTISING TERMINAL	7,640,214	10/101,574	United States	US
	SELF-SERVICE TERMINAL	8,515,869	10/051,355	United States	US
	SELF SERVICE TERMINAL	7,716,134	10/051,353	United States	US
	SELF-SERVICE TERMINAL	6,732,918	10/008,559	United States	US
	SELF-SERVICE TERMINAL	6,659,342	10/008,219	United States	SU
T PROCESSING	BELT APPARATUS FOR USE IN A DOCUMENT PROCESSING SYSTEM	6,645,103	10/004,134	United States	US
	ENCRYPTING KEYPAD MODULE	7,298,850	10/004,132	United States	US
FOR USE IN A	RETRACTABLE TRACK GUIDE APPARATUS FOR USE IN A DOCUMENT PROCESSING SYSTEM	6,557,850	09/992,364	United States	US
	MODULE	7,233,408	09/992,231	United States	US
	Tide	Patent Number	Application Number	Country Name	Country Code

10/353,481
10/326,513 6,789,795
10/325,345 6,981,636
6,860,423
10/315,850 7,266,230
10/294,952 6,663,001
10/270,943 6,959,187
10/261,140 7,302,583
10/260,316 7,136,623
10/252,771 7,680,710
10/236,730 6,786,354
Application Patent Number Number

US	US	SU	US	US	US	US	SD	Sn	Sn	US	Sn	Country Code
United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
12/787,654	12/787,623	12/786,187	12/784,598	12/783,611	12/749,886	12/647,000	12/644,104	12/641,722	12/641,675	12/626,732	12/621,770	Application Number
9,355,238	8,301,937	8,499,200	10,430,871	8,567,665	8,938,689	8,314,823	8,572,753	8,499,346	8,066,273	8,320,633	9,482,042	Patent Number
SELF SERVICE APPLICATION ACCESS CONTROL	HEARTBEAT SYSTEM	MANAGING CODE-TRACING DATA	SELF-SERVICE TERMINAL	SECURE ENCLOSURE	WINDOW SUPPRESSION	PRINTER AND METHOD OF PRINTING	METHODS AND APPARATUS FOR SELECTING AND DELIVERING CONTENT	SECURE AUTHENTICATION AT A SELF-SERVICE TERMINAL	DUAL-STACK DOCUMENT STORAGE BIN FOR USE IN A SELF- SERVICE BUNCH DOCUMENT DEPOSITING TERMINAL	SYSTEM AND METHOD FOR IDENTIFYING PRODUCE	SECURE ENCLOSURE	Title

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United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
10/732,654	10/732,653	10/732,652	10/732,651	10/691,217	10/618,235	10/610,027	10/455,290	10/455,289	10/426,559	10/375,760	Application Number
7,357,302	7,602,957	7,024,396	7,066,668	6,851,605	7,856,401	6,793,134	6,758,395	6,923,371	6,929,176	6,739,503	Patent Number
SELF-SERVICE TERMINAL	IMAGE-BASED CHECK PROCESSING SYSTEM AND A METHOD OF OPERATING AN IMAGE-BASED CHECK PROCESSING SYSTEM TO TEST FOCUS OF AN IMAGING CAMERA	TRANSACTION SYSTEM AND A METHOD OF CONDUCTING A POINT-OF-SALE TRANSACTION BETWEEN A MERCHANT AND A CONSUMER USING A WIRELESS PLATFORM	METHOD OF CREATING AN IMAGE REPLACEMENT DOCUMENT FOR USE IN A CHECK TRUNCATION ENVIRONMENT AND AN APPARATUS THEREFOR	MEDIA STORAGE	SELF-SERVICE TERMINAL	SELF-SERVICE TERMINAL	SELF-SERVICE TERMINAL	AUTHORIZATION CODE	SELF-SERVICE TERMINAL	APPARATUS FOR USE IN A SELF-SERVICE TERMINAL AND A METHOD OF PROCESSING A FINANCIAL INSTRUMENT AT A SELF-SERVICE TERMINAL	Tide

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10/922,525	10/922,524	10/922,485	10/886,317	10/871,408	10/850,755	10/834,524	10/822,582	10/809,573	10/739,513	10/739,506	10/732,655	Application Number
7,049,572	7,242,486	7,194,151	7,225,973	7,421,107	7,639,858	8,949,310	7,129,506	7,051,927	7,128,259	7,215,414	7,350,230	Patent Number
OPTICAL SENSOR AND METHOD OF OPERATION THEREOF	NOTE SKEW DETECTOR	OPTICAL MEDIA DETECTOR AND METHOD OF OPEATION THEREOF	SELF-SERVICE TERMINAL	METHOD OF CREATING A SUBSTITUTE CHECK AND AN APPARATUS THEREFOR	CURRENCY VALIDATION	CLIENT OBJECT FOR USE IN A SELF-SERVICE TERMINAL	OPTICALLY DETECTABLE SECURITY FEATURE	APPARATUS FOR USE IN A SELF-SERVICE TERMINAL AND A METHOD OF PROCESSING A FINANCIAL INSTRUMENT AT A SELF-SERVICE TERMINAL	DETECTOR	MODULE FOR VALIDATING DEPOSITED MEDIA ITEMS	WIRELESS SECURITY MODULE	Title

US	US	US	US	US	Sn	US	Sn	Sn	Sn	US	Sn	Country Code
United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
12/951,503	12/947,512	12/946,972	12/878,059	12/873,761	12/868,863	12/868,844	12/868,842	12/868,796	12/861,290	12/852,252	12/832,189	Application Number
10,217,328	8,850,181	8,430,395	8,302,757	8,994,663	8,479,910	8,366,107	8,899,475	8,360,429	10,043,351	8,922,498	8,262,076	Patent Number
ASSISTED SERVICE TERMINAL	ACCESSING A SECURE TERMINAL	PICK UNIT	MEDIA RECYCLER	SECURE PIN ENTRY ON TOUCH SCREEN FOR VISUALLY IMPAIRED USERS	REMOVABLE MEDIA CONTAINER	MEDIA PRESENTER	MEDIA PRESENTER	EXTERNALLY-POWERABLE MEDIA TRANSPORT MODULE	SELF-SERVICE TERMINAL	SELF-SERVICE TERMINAL AND CONFIGURABLE SCREEN THEREFOR	MEDIA DEPOSITORY	Title

US United States	US United States	US United States	US United States	US United States	US United States	US United States	US United States	US United States	US United States	US United States	US United States	Country Count Code Name
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12/977,234	12/977,201	12/976,699	12/976,596	12/976,276	12/974,515	12/974,429	12/958,001	12/957,578	12/955,471	12/955,333	12/953,594	Application Number
9,020,886	8,261,903	9,000,759	9,248,991	8,912,479	8,826,409	9,053,600	9,645,869	8,827,152	8,479,979	8,496,242	10,565,614	Patent Number
PEER TO PEER DIAGNOSTIC TOOL	MEDIA PRESENTER	MAGNETIC SENSOR	MEDIA TRANSPORT MODULE	MEDIA PRESENTER	SECURE DIGITAL DOWNLOAD STORAGE DEVICE	DIGITAL MEDIA KIOSK	USING EXCEPTION INFORMATION	SELF-SERVICE TERMINAL	MEDIA CASSETTE	MEDIA CASSETTE	ADVERTISING WITH DIGITAL MEDIA CONTENT	Title

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US	US	US	US	US	US	US	Sn	US	US	US	US	Country Code
United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
13/230,976	13/228,164	13/220,058	13/194,493	13/194,255	13/109,636	13/099,836	13/099,826	13/099,812	13/099,795	13/095,002	13/044,031	Application Number
8,584,947	8,504,476	9,218,129	9,082,114	8,668,194	8,572,294	8,915,434	10,152,615	8,496,171	8,704,633	10,065,823	8,868,730	Patent Number
FRAUD PREVENTION	SYSTEM AND METHOD OF CERTIFYING A CHECK	USER INTERFACE	SELF-SERVICE TERMINAL	MEDIA CASSETTE	DEVICE START UP SYSTEM AND METHOD	FRAUD PREVENTION	FRAUD PREVENTION	FRAUD PREVENTION	FRAUD PREVENTION	ROTARY STORAGE	METHODS OF MANAGING LOADS ON A PLURALITY OF SECONDARY DATA SERVERS WHOSE WORKFLOWS ARE CONTROLLED BY A PRIMARY CONTROL SERVER	Tide

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United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
11/016,789	11/016,788	11/016,661	11/007,002	11/006,978	11/006,961	11/006,956	10/941,518	10/935,989	10/933,020	10/929,257	10/929,237	Application Number
7,229,071	7,207,493	7,638,746	7,522,759	7,245,708	7,232,059	7,191,936	7,051,928	7,206,544	7,270,275	7,066,669	7,493,496	Patent Number
DOCUMENT STACKER APPARATUS AND METHOD OF STACKING DOCUMENTS	DOCUMENT STACKER APPARATUS AND METHOD OF STACKING DOCUMENTS	SENSING ARRANGEMENT	SELF-SERVICE TERMINAL	ACOUSTIC COUPLING PRODUCT LABEL	VACUUM PICKING SYSTEM	AUTOMATED TELLER MACHINE	DOCUMENT DIVERTER APPARATUS FOR USE IN A SELF- SERVICE TERMINAL	SELF-SERVICE TERMINAL		METHOD OF CREATING AN IMAGE REPLACEMENT DOCUMENT FOR USE IN A CHECK TRUNCATION ENVIRONMENT AND AN APPARATUS THEREFOR	BIOMETRIC SYSTEM	Tide

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United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
11/189,571	11/159,082	11/159,080	11/148,631	11/130,589	11/130,588	11/098,826	11/089,206	11/082,533	11/079,848	11/079,847	11/029,251	Application Number
7,522,916	7,546,300	7,461,773	7,469,825	7,347,359	7,357,304	7,457,440	7,427,054	7,451,919	7,424,969	7,360,862	RE41,418	Patent Number
METHOD OF PROVIDING INFORMATION	SYSTEM FOR PROVIDING SECURE ACCESS	METHOD OF OPERATING AN IMAGE-BASED SELF-SERVICE CHECK DEPOSITING TERMINAL IN RESPONSE TO A FAULT CONDITION	SELF-SERVICE TERMINAL	SELF-SERVICE TERMINAL	SECURITY MEANS FOR A SPRAY DISPENSER	METHOD OF DETERMINING USABILITY OF A DOCUMENT IMAGE AND AN APPARATUS THEREFOR	ANTI-RAM RAID PLINTH	SELF-SERVICE TERMINAL	CHEQUE DEPOSIT AT A SELF-SERVICE TERMINAL	INKJET APPARATUS AND A METHOD OF CONTROLLING AN INKJET MECHANISM	METHOD OF PROCESSING MISORIENTED ITEMS IN AN IMAGE-BASED ITEM PROCESSING SYSTEM AND AN APPARATUS THEREFOR	Title

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United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
11/273,474	11/265,807	11/265,725	11/265,703	11/265,702	11/265,671	11/265,668	11/243,675	11/224,178	11/224,177	11/217,833	11/217,831	Application Number
7,493,422	8,708,226	7,256,398	7,378,675	7,501,646	7,800,088	7,488,954	7,391,934	7,230,223	7,436,313	7,401,729	7,401,736	Patent Number
LOSS OF UNIVERSAL SERIAL BUS COMMUNICATIONS	SUPERVISOR PROGRAM	SECURITY MARKERS FOR DETERMINING COMPOSITION OF A MEDIUM	SECURITY MARKERS FOR INDICATING CONDITION OF AN ITEM	SECURITY MARKERS FOR REDUCING RECEIPT FRAUD	SECURITY MARKERS FOR IDENTIFYING A SOURCE OF A SUBSTANCE	SECURITY MARKERS FOR MARKING A PERSON OR PROPERTY	METHOD OF CREATING A SUBSTITUTE CHECK USING CHECK IMAGE DATA FROM A REMOTE CHECK IMAGE CAPTURE DEVICE AND AN APPARATUS THEREFOR	SENSING SYSTEM FOR ASCERTAINING CURRENCY CONTENT OF ATM	PENETRATION SCREEN	SELF SERVICE TERMINAL	CARD READER	Title

Sn	Sn	US	US	US	US	US	SU	SN	US	US	Sn	Country Code
United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
13/322,281	13/308,157	13/308,112	13/307,937	13/285,889	13/285,854	13/285,829	13/285,753	13/266,535	13/250,639	13/250,182	13/250,025	Application Number
9,659,464	8,777,222	9,147,323	8,480,085	8,757,356	11,220,409	8,727,336	8,485,433	8,942,461	8,622,295	8,585,042	9,135,020	Patent Number
A USER TERMINAL SYSTEM AND METHOD	DOCUMENT STACKING	SECURE COLLECTION	ITEM STORAGE	MEDIA DEPOSITORY	SINGLE ITEM REMOVAL	CONDITION DETERMINING	TERMINAL FASCIA	METHOD FOR A BANKNOTE DETECTOR DEVICE, AND A BANKNOTE DETECTOR DEVICE	UNIT OF A MEDIA DEPOSITORY	CONTROLLING A PICK MECHANISM OF A MACHINE FOR HANDLING SHEET MEDIA	CORRELATION OF RESOURCES	Tide

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US	US	US	US	US	US	US	SU	SU	S	US	US	Country Code
United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
11/305,752	11/305,574	11/305,573	11/305,538	11/305,531	11/301,990	11/288,779	11/288,778	11/288,777	11/274,968	11/273,485	11/273,483	Application Number
7,720,313	7,296,735	7,497,436	7,490,764	7,341,179	7,699,230	7,575,166	7,815,103	7,600,671	7,462,840	7,458,516	7,545,960	Patent Number
DIGITIZED BANK CHECKS VALIDATED BY DIGITAL SIGNATURES	MEDIA THICKNESS SENSOR ASSEMBLY	MEDIA CASSETTE PUSHER PLATE LOCKING MECHANISM	SECURE ENCLOSURE FOR SUB-ASSEMBLY OF SELF-SERVICE EQUIPMENT	MEDIA CASSETTE SENSING SYSTEM	SECURE TAG	AUTOMATED TELLER MACHINE	METHOD OF AND SYSTEM FOR PREDICTION OF THE STATE OF HEALTH OF AN APPARATUS	METHOD OF DETERMINING THE CAUSE OF AN ERROR STATE IN AN APPARATUS	SECURE TAG READER	CARD READER	BIOMETRIC SYSTEM	Title

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United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
11/517,854	11/512,008	11/434,680	11/367,974	11/367,973	11/355,573	11/315,901	11/315,889	11/315,888	11/314,062	11/305,758	11/305,756	Application Number
7,637,423	7,677,447	7,490,759	7,441,704	7,262,420	8,034,398	7,469,350	7,641,185	8,589,868	7,520,423	7,711,176	7,575,155	Patent Number
METHOD OF PROCESSING A CHECK DEPOSITING TRANSACTION BETWEEN A BANK CUSTOMER AND A BANK TELLER	METHOD AND SYSTEM FOR AUTOMATED TELLER MACHINE REMOTE DIAGNOSTICS AND CONFIGURATION	ACCURACY OF DATA ENTRY INTO MICR LINE OF BANK CHECKS IN TRANSIT IN THE CLEARING PROCESS	SYSTEM AND METHOD FOR IDENTIFYING A SPATIAL CODE	SECURE TAG VALIDATION	SECURE TAG CODING	POWER CONTROL INTERFACE FOR A SELF-SERVICE APPARATUS	VACUUM PICK MECHANISMS	CREATING A TERMINAL APPLICATION	MULTI-VENDOR AGENT FOR A SELF-SERVICE TERMINAL	COMPUTER-IMPLEMENTED METHOD OF PROCESSING A SUBSTITUTE CHECK AND AN APPARATUS THEREFOR	ROTATING PATH SWITCH	Tide

US	SU	SU	Sn	US	US	S	S	US	Sn	US	Country Code
United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
13/332,559	13/331,495	13/331,457	13/331,428	13/330,293	13/330,251	13/330,118	13/330,025	13/327,310	13/327,261	13/326,862	Application Number
8,903,173	8,936,244	9,159,180	8,608,056	9,098,963	8,662,284	9,145,257	9,176,100	8,761,487	8,625,877	8,800,863	Patent Number
DOCUMENT DE-SKEWING	DOCUMENT PINCHING	MEDIA CONVEYING	GUIDING PATHWAY	FOREIGN BODY DETECTING	ITEM TRANSPORTATION	BELT SUPPORTING	FOREIGN BODY DETECTING	METHODS OF OPERATING AN IMAGE-BASED CHECK PROCESSING SYSTEM TO DETECT A DOUBLE FEED CONDITION OF CHECKS AND AN APPARATUS THEREFOR	METHODS OF OPERATING AN IMAGE-BASED CHECK PROCESSING SYSTEM TO DETECT A DOUBLE FEED CONDITION OF CARRIER ENVELOPES AND AN APPARATUS THEREFOR	MEDIA DISPENSING	Title

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United States	States United States	States United	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
11/788,087	11/765,605	11/710,884	11/634,700	11/608,483	11/608,427	11/521,713	11/521,712	11/521,670	11/520,716	11/518,547	Application Number
7,451,977	8,576,436	7,783,570	7,602,294	7,543,816	8,196,812	7,354,003	7,575,160	7,401,730	7,410,159	7,404,552	Patent Number
CHEQUE STACKING BIN	TWO-SIDED PRINT DATA SPLITTING	CASH TRANSACTION VERIFICATION AND CREDITING	ACROSS THE PAVEMENT (ATP) WIRELESS SECURITY SYSTEM	DIVERTING STACKER WHEEL	CONDUCTING MULTIPLE FINANCIAL TRANSACTIONS ON A SELF-SERVICE TERMINAL	CARD READER	SECURITY VALIDATION OF MACHINE COMPONENTS	SELF-SERVICE DEPOSIT METHOD AND APPARATUS	PAPERS FEEDING DEVICE	DEVICE FOR HANDLING PAPER SHEETS OR THE LIKE, AUTOMATIC TRANSACTION DEVICE, AND DEVICE FOR CONVEYING PAPER SHEETS OR THE LIKE	Tide

US	US	US	US	US	US	US	Sn	Sn	Sn	US	Sn	Country Code
United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
13/474,292	13/460,172	13/454,797	13/436,298	13/436,215	13/436,078	13/435,905	13/413,200	13/402,981	13/362,751	13/336,166	13/332,654	Application Number
9,313,290	8,983,168	8,783,559	8,874,967	8,738,528	8,805,025	9,221,632	10,504,083	9,939,964	8,972,791	8,448,780	8,991,694	Patent Number
DATA TRANSFER BETWEEN DEVICES	DEFECT CATEGORISATION	STATE DETECTION	MANAGING CODE-TRACING DATA	OPTION SELECTION	STAIN DETECTION	MEDIA CASSETTE LOADER	FINANCIAL SERVICES CENTER ATM	FREQUENCY SWITCHING	MANAGING CODE-TRACING DATA	SHEET BUNDLE CONVEYING APPARATUS AND PAPER SHEET HANDLING APPARATUS	AUTO ADJUSTABLE SCRAPER TO INCREASE TAPED ESCROW CAPACITY	Tide

US	Sn	US	Sn	SD	US	US	US	S	US	US	US	Country Code
United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
11/904,090	11/899,382	11/899,381	11/888,687	11/888,684	11/888,683	11/888,681	11/827,868	11/827,865	11/821,124	11/809,108	11/788,088	Application Number
8,832,650	8,086,018	7,942,315	7,721,952	8,611,665	8,503,796	9,019,066	7,957,577	8,205,250	9,898,722	8,684,152	7,426,053	Patent Number
AUTOMATED CODE GENERATION FOR AN AUTOMATED TELLER MACHINE	METHODS OF PROCESSING A CHECK IN A CHECK STOCK VERIFICATION SYSTEM	SELF-SERVICE TERMINAL	PRESENTING MISALIGNED STACKS OF MEDIA	AUTOMATED RECOGNITION OF VALUABLE MEDIA	METHOD OF VALIDATING A MEDIA ITEM	AUTOMATED SESSION LOGOUT IN SELF-SERVICE ENVIRONMENTS	BANK DOCUMENT IMAGE VIEWING APPARATUS AND METHODS OF A FINANCIAL INSTITUTION PRESENTING AN IMAGE OF A BANK DOCUMENT IN A CHECK TRUNCATION ENVIRONMENT	METHOD OF VALIDATING A DIGITAL CERTIFICATE AND A SYSTEM THEREFOR	SYSTEM AND METHOD FOR INTERACTING WITH A SELF- SERVICE TERMINAL	BUNCH MEDIA PROCESSING SYSTEM	MODULE	Tide

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US	US	SU	US	US	US	US	SO	Sn	Sn	US	US	Country Code
United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
13/663,166	13/628,861	13/596,594	13/595,254	13/562,790	13/562,761	13/551,351	13/546,269	13/546,170	13/524,423	13/483,316	13/483,284	Application Number
9,891,793	9,219,660	8,887,996	11,132,657	9,865,118	8,733,530	8,931,632	8,805,014	8,915,426	10,115,259	8,875,991	8,876,079	Patent Number
DISPLAY POSITION OFFSET	SELF-SERVICE TERMINAL	SECURE TERMINAL	TRANSACTION FLOW	CASSETTE REPLENISHMENT	ITEM RECYCLING	JAM REDUCTION	PRODUCE COLOR DATA CORRECTION METHOD AND AN APPARATUS THEREFOR	MEDIA DISPENSING SELF-SERVICE TERMINAL	ITEM VALIDATION	PATHWAY SELECTION	DISPLAY LOCATION	Tide

US	US	SN	SD	Sn	Sn	SN	SN	SN	Sn	SN	SN	Country Code
United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
12/004,357	12/004,356	12/004,355	12/004,352	12/004,351	12/004,350	12/001,815	12/00/21	11/986,254	11/981,307	11/981,306	11/904,091	Application Number
7,574,967	10,607,454	8,091,789	8,606,610	7,909,244	10,540,861	9,064,231	8,733,653	8,464,045	8,505,037	8,061,590	8,118,215	Patent Number
SECURITY CONTAINER	DEVICE MANAGEMENT PORTAL, SYSTEM AND METHOD	BARCODE IMAGING SYSTEM AND SOURCE OF ELECTROMAGNETIC RADIATION THEREFOR	SERVICE TESTING METHOD	METHODS OF OPERATING AN IMAGE-BASED SELF-SERVICE CHECK DEPOSITING TERMINAL TO PROVIDE ENHANCED CHECK IMAGES AND AN APPARATUS THEREFOR	SUSTAINED AUTHENTICATION OF A CUSTOMER IN A PHYSICAL ENVIRONMENT	CONVERTING DOCUMENTS	CARD READER DEVICE	DISTRIBUTED DIGITAL CERTIFICATE VALIDATION METHOD AND SYSTEM	COMMUNICATING WITH DEVICES IN AN ATM	PRIVACY-ENABLED KEYPAD	SELF-SERVICE TERMINAL	Tide

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United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
12/012,165	12/012,163	12/012,162	12/011,321	12/011,320	12/004,398	12/004,396	12/004,366	12/004,365	12/004,361	12/004,360	12/004,358	Application Number
8,033,454	7,782,600	8,201,728	7,490,780	8,196,820	8,116,995	8,484,615	9,680,660	8,360,309	9,082,056	7,847,254	8,251,282	Patent Number
SELF-SERVICE TERMINAL	ACCESS SELF-SERVICE TERMINAL	TERMINAL AND DEVICE MANAGEMENT METHOD	CARD READER	SELF-SERVICE TERMINAL	MEDIA CHARACTERIZATION	SOFTWARE FRAMEWORK TO BUILD AN EXECUTABLE SCHEME IN A GUI ENVIRONMENT	SELF-SERVICE TERMINAL	REDUCING TRANSACTION TIME IN A SELF-SERVICE TERMINAL	TOKEN AND READER	PHOTOCONDUCTIVE DEVICE	CARD READER DEVICE WITH SENSOR FOR SENSING CARD TRAPPING DEVICE	Tide

US	US	Sn	US	US	US	US	US	Sn	Sn	US	Sn	Country Code
United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
13/745,143	13/739,500	13/720,373	13/719,544	13/718,710	13/718,579	13/711,228	13/690,823	13/686,508	13/664,127	13/664,085	13/663,947	Application Number
8,587,551	9,176,492	9,016,682	8,844,806	9,470,030	9,470,035	9,734,648	9,342,964	9,299,206	8,925,829	8,695,879	8,973,917	Patent Number
ENCRYPTING TOUCH-SENSITIVE DISPLAY	TECHNIQUES FOR CONFIGURING PHYSICAL SPACES	ITEM LOCATION	SELECTIVE BUNCH PRESENTATION	SELF-ALIGNING COVER FOR AN SST	MODULE MOUNTING	COUNTERFEIT MEDIA DETECTION	MEDIA ITEM CHARACTERIZATION	APPARATUS AND METHOD FOR CURRENCY TRACKING	OPTICAL CODE	FRAUD PREVENTION	DEPOSIT MODULE	Tide

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States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
	12/215,868	12/215,867	12/152,777	12/152,776	12/148,455	12/069,343	12/069,336	12/012,178	12/012,177	12/012,167	12/012,166	Application Number
	8,577,117	8,739,305	7,886,965	8,113,426	10,642,692	8,011,571	8,194,877	7,946,409	7,810,715	8,484,627	7,774,649	Patent Number
	EVALUATING SOILING OF A MEDIA ITEM	SECURE ACCESS TO ENCRYPTED INFORMATION	SCALEABLE CHECK PROCESSING MODULE FOR A SELF- SERVICE CHECK DEPOSITING TERMINAL	CHECK PROCESSING MODULE FOR A SELF-SERVICE CHECK DEPOSITING TERMINAL	SYSTEM OF METHOD OF STORING DATA IN A SELF-SERVICE TERMINAL	SELF-SERVICE TERMINAL	AUDIO PROCESSING APPARATUS	SELF SERVICE TERMINAL	SELF-SERVICE TERMINAL	INTEROPERABILITY METHOD AND SOFTWARE	SELF-SERVICE TERMINAL	Title

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US	US	Sn	SN	Sn	SN	SU	SO	SN	SN	Sn	SN	Country Code
United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
13/926,454	13/919,064	13/899,068	13/897,744	13/873,963	13/869,097	13/839,670	13/828,808	13/800,397	13/778,257	13/772,057	13/753,026	Application Number
10,218,383	9,245,399	9,430,675	9,311,674	9,951,550	9,361,608	8,714,337	9,019,089	9,127,495	9,177,450	9,098,089	9,643,785	Patent Number
KEYPAD	MEDIA AUTHENTICATION	ENCRYPTING PIN PAD	MEDIA MANAGEMENT	AUTOMATED TELLER MACHINE (ATM) HAVING A SIDECAR AND METHODS OF SUPPORTING AN ATM HAVING A SIDECAR	TRANSACTION DISPUTE RESOLUTION	REMOVABLE MEDIA CONTAINER	USER INTERFACE FOR AN SST	SECURE ENCLOSURE	MEDIA HANDLER PROTECTION	MEDIA ALIGNMENT	BUNCH PRESENTATION	Tide

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Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number 7,633,605 12/220,846 8,370,923 12/337,996 7,910,903 12/338,262 8,196,920 12/339,698 8,126,505 12/339,729 9,064,043 12/342,984 8,245,076 12/396,920 8,319,738 12/399,309 8,078,912 12/404,521 8,619,315		SU	US	SN	SN	US	SN	sn	SN	SN	SD	US	US	Country Code
7,633,605 8,370,923 8,370,923 9,014,845 9,014,845 8,196,920 8,126,505 8,126,505 9,177,272 9,177,272 9,177,272 8,245,076 8,319,738 8,319,738 8,619,315	States	United	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
	The state of the s	12/404,521	12/399,309	12/396,920	12/342,984	12/342,908	12/339,729	12/339,698	12/338,262	12/337,996	12/288,694	12/220,846	12/220,148	Application Number
PRISM SENSOR AND METHOD OF OPERATING A PRISM SENSOR FOR A CHECK PROCESSING MODULE OF A SELF-SERVICE CHECK DEPOSITING TERMINAL ACCESS TO A PROCESSING DEVICE ITEM VERIFICATION APPARATUS AND METHOD OPTICAL SENSOR MEDIA CASSETTE DATA VERIFICATION SYSTEM FOR A NEAR FIELD COMMUNICATIONS ENABLED DISPLAY FAULT REPLAY SYSTEM AND METHOD METHOD AND SYSTEM OF OBTAINING DIAGNOSTIC DATA FROM A DEVICE AT A REMOTE LOCATION METHOD AND APPARATUS FOR INITIATING CORRECTIVE ACTION FOR AN ELECTRONIC TERMINAL TOUCHSCREEN MODULE SELF-SERVICE TERMINAL TWO-SIDED PRINT DATA HANDLING	3 1 N N N N N N N N N N N N N N N N N N	8,619,315	8,078,912	8,319,738	8,245,076	9,177,272	9,064,043	8,126,505	8,196,920	7,910,903	9,014,845	8,370,923	7,633,605	Patent Number
		TWO-SIDED PRINT DATA HANDLING	SELF-SERVICE TERMINAL	TOUCHSCREEN MODULE	METHOD AND APPARATUS FOR INITIATING CORRECTIVE ACTION FOR AN ELECTRONIC TERMINAL	METHOD AND SYSTEM OF OBTAINING DIAGNOSTIC DATA FROM A DEVICE AT A REMOTE LOCATION	FAULT REPLAY SYSTEM AND METHOD	DATA VERIFICATION SYSTEM FOR A NEAR FIELD COMMUNICATIONS ENABLED DISPLAY	MEDIA CASSETTE	OPTICAL SENSOR	ITEM VERIFICATION APPARATUS AND METHOD		PRISM SENSOR AND METHOD OF OPERATING A PRISM SENSOR FOR A CHECK PROCESSING MODULE OF A SELF-SERVICE CHECK DEPOSITING TERMINAL	Title

Country Code	Country Name	Application Number	Patent Number	Title
Sn	United States	12/413,837	8,875,282	ACCESSING A PROCESSING DEVICE
US	United States	12/433,959	8,499,071	APPLICATION MONITORING
US	United States	12/469,756	8,300,915	METHODS OF OPERATING AN IMAGE-BASED SELF-SERVICE CHECK DEPOSITING TERMINAL TO IMPROVE LOCATING A PRE-DEFINED CHECK FIELD AND AN APPARATUS THEREFOR
Sn	United States	12/491,853	8,297,865	MEDIA TRANSPORT
US	United States	12/491,875	8,570,281	MULTI-TOUCH SURFACE INTERACTION
Sn	United States	12/491,885	8,319,700	MULTIPLE-DISPLAY DEVICE
Sn	United States	12/491,900	8,719,729	USER INTERFACE FOR A COMPUTING DEVICE
SN	United States	12/493,607	8,792,911	NAVIGATION SYSTEM AND METHOD
SN	United States	12/500,641	8,262,083	MEDIA CASSETTE
Sn	United States	12/512,413	8,456,429	ENCRYPTING TOUCH-SENSITIVE DISPLAY
Sn	United States	12/512,457	10,095,462	INTERACTIVE DISPLAY
Sn	United States	12/542,389	7,950,651	MEDIA STACKER
CONFIDENTIAL	TAILN	the second secon	32	

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United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
14/013,897	13/967,999	13/962,375	13/962,212	13/960,351	13/960,190	13/959,271	13/955,713	13/955,472	13/954,556	13/946,665	13/930,554	Application Number
11,526,821	9,367,979	10,956,892	9,904,915	9,171,430	8,966,505	10,504,315	9,990,793	9,082,246	9,016,683	8,625,876	9,824,545	Patent Number
MANAGING MEDIA REPLENISHMENT	MEDIA COUNT MANAGEMENT	TRANSACTION PERFORMANCE	VIRTUALIZED ATM	MEDIA ITEM TRANSPORTER	EVENT HANDLING	CLAMPING OF MEDIA ITEMS	MEDIA ITEM SEPARATION	MEDIA ITEM TRANSPORTATION	MEDIA ITEM TRANSPORTATION	VALIDATION TEMPLATE FOR VALUABLE MEDIA OF MULTIPLE CLASSES	INFORMATION PROVISION	Tide

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United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
12/620,714	12/609,519	12/609,459	12/608,424	12/607,579	12/604,024	12/570,487	12/570,433	12/570,405	12/551,129	12/551,097	12/551,053	Application Number
10,074,238	8,322,721	9,071,634	8,480,077	9,251,642	7,845,573	8,113,511	8,480,076	8,754,856	8,573,405	8,238,095	8,870,064	Patent Number
TICKETLESS SYSTEM AND METHOD OF MANAGING CASION PATRON MONEY BALANCES	MEDIA DISPENSER	NETWORK MANAGEMENT SYSTEM, SOFTWARE AND METHOD	DOCUMENT PROCESSING APPARATUS AND METHOD OF OPERATING A DOCUMENT PROCESSING APPARATUS	SYSTEM AND METHOD OF MANAGING CASINO PATRON MONEY BALANCES	MEDIA STORAGE DEVICE	DOCUMENT DESKEWING MODULE WITH A MOVING TRACK BOTTOM AND METHODS OF OPERATING A DOCUMENT DESKEWING MODULE	MEDIA HANDLING	MULTI-TOUCH SURFACE INTERACTION	MEDIA DEPOSITORY	SECURE CIRCUIT BOARD ASSEMBLY	SELF-SERVICE TERMINAL MANAGEMENT	Tide

US	Sn	US	US	US	US	US	US	SO	US	US	US	Country Code
United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
14/229,272	14/228,858	14/228,796	14/224,849	14/194,081	14/193,967	14/193,668	14/193,493	14/193,045	14/170,066	14/169,845	14/169,835	Application Number
10,970,693	10,319,171	10,681,036	9,336,638	9,338,167	10,037,527	9,483,420	9,311,473	10,152,391	9,811,856	10,395,226	9,923,412	Patent Number
SEMI-AUTOMATIC CONFIGURATION OF A SELF-SERVICE TERMINAL	MEDIA ESCAPE PREVENTION FOR SELF-SERVICE TERMINAL	COMPOSITE SECURITY INTERCONNECT DEVICE AND METHODS	MEDIA ITEM VALIDATION	SELF-SERVICE TERMINAL (SST) THIN CLIENT	END-TO-END DEVICE AUTHENTICATION	SELF-SERVICE TERMINAL (SST) DEVICE DRIVER	UNATTENDED SECURE DEVICE AUTHORIZATION	SELF-SERVICE TERMINAL (SST) BACKUPS AND ROLLBACKS	SYSTEM AND METHOD FOR REDUCING A PROCESSING TIME FOR A BANK TRANSACTION	MAINTAINING SECURE ACCESS TO A SELF-SERVICE TERMINAL (SST)	POWERING A SELF-SERVICE TERMINAL	Tide

Sn	US	US	US	US	US	US	SU	Sn	S	US	US	Country Code
United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
14/448,071	14/312,076	14/291,553	14/290,177	14/290,091	14/266,392	14/266,055	14/265,603	14/264,860	14/231,055	14/231,011	14/230,541	Application Number
10,990,970	9,299,225	10,262,360	9,098,362	10,002,007	10,706,426	10,970,748	9,672,361	9,824,268	9,361,475	10,515,367	9,830,586	Patent Number
AUTOMATED FRAUD DETECTION	VALUE MEDIA DISPENSER RECOGNITION SYSTEMS	DEPOSIT VISUALIZATION	OPERATING SYSTEM (OS) INDEPENDENT APPLICATION AND DEVICE COMMUNICATION	OPERATING SYSTEM (OS) INDEPENDENT DEVICE DRIVERS	AUTOMATED REMOTE TRANSACTION ASSISTANCE	CHANNEL INTEGRATION	SELF-SERVICE TERMINAL (SST) SECURE BOOT	MEDIA ITEM VALIDATION	AUTOMATED ATTENDED SELF-SERVICE TERMINAL (SST) OPERATIONS	FRAUD DETECTION IN SELF-SERVICE TERMINAL	ELECTRONIC PAYMENTS	Tide

US	US	US	US	US	US	US	SU	US	US	US	US	Country Code
United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
14/554,758	14/554,448	14/553,351	14/512,808	14/510,642	14/506,799	14/499,612	14/499,365	14/470,300	14/468,770	14/448,528	14/448,230	Application Number
11,238,443	10,492,020	9,871,771	11,055,682	9,811,815	9,606,576	9,460,432	10,943,222	10,930,101	10,445,710	9,454,864	9,652,752	Patent Number
SECURE CRYPTO CURRENCY POINT-OF-SALE (POS) MANAGEMENT	GEOGRAPHICAL CONTEXTUAL INFORMATION	CRYPTOGRAPHIC SECURITY PROFILES	AUTHENTICATED SELF-SERVICE TERMINAL (SST) ACCESS	DYNAMIC REPLACEMENT OF SELF-SERVICE TERMINAL (SST) STATES FLOW AND SCREENS HANDLING	DISPLAY LOCATION	ON-PREMISES DEVICE TRANSACTION COLLABORATION	DEVICES AND METHODS FOR PAYMENT HANDLING	SELF-SERVICE TERMINAL (SST) SAFE AND METHODS OF OPERATING A LOCK FOR THE SST SAFE	SECURITY DEVICE KEY MANAGEMENT	FEEDER MODULE WITH FORCE SENSING ADJUSTMENT	DYNAMIC NETWORK TIMEOUT TUNING	Tide

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United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
14/751,469	14/744,737	14/725,886	14/725,253	14/699,345	14/680,208	14/672,988	14/633,313	14/610,845	14/610,697	14/610,132	14/555,034	Application Number
11,727,385	11,200,556	10,332,360	10,318,849	10,153,904	9,470,766	10,963,850	9,309,083	9,485,250	10,429,930	10,218,684	9,471,940	Patent Number
MULTI-BILLER PAYMENT SYSTEMS AND METHODS	METHOD AND DEVICE FOR RETRIEVING SECURED TERMINAL LOG DATA	DEVICE FRAUD INDICATOR DETECTION AND REPORTING	CHECK IMAGE DATA INTERFERENCE PROCESSING	VALIDATING RESOURCE EXECUTION	MAGNETIC SENSOR	INTER NETWORK REMOTE ASSIST	DOCUMENT DIVERTER	AUTHORITY TRUSTED SECURE SYSTEM COMPONENT	TACTILE FEATURES FOR BLIND AND SIGHTED PIN ENTRY AND TOUCHSCREEN	SECURE DATA TRANSMISSION	REAL-TIME SELF-SERVICE TERMINAL (SST) NETWORK AWARENESS	Title

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United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
14/927,737	14/927,684	14/880,336	14/865,671	14/862,922	14/862,516	14/838,711	14/838,469	14/838,428	14/815,401	14/814,716	14/814,655	Application Number
9,996,362	10,294,050	10,122,549	10,389,605	10,260,271	9,691,234	10,467,418	10,803,437	10,353,689	9,349,259	10,803,517	9,959,693	Patent Number
DIAGNOSTICS ONLY BOOT MODE	TWO STAGE MEDIA SEPARATOR	MEDIA CONVEYING	AREA BASED EVENT DETECTION AND MULTI-FACTORIAL EVENT CHARACTERISATION	SAFE	SECURE COLLECTION	COMPUTER PRE-BOOT SECURITY VERIFICATION, ENFORCEMENT, AND REMEDIATION	SELF-SERVICE TERMINAL TECHNICAL STATE MONITORING AND ALERTING	METHOD FOR TRANSFERRING A FILE VIA A MOBILE DEVICE AND MOBILE DEVICE FOR PERFORMING SAME	SELF-LOCKING SHUTTER ASSEMBLY	EXTRACTING BEHAVIORS AND SUGGESTING BEHAVIORS TO ACHIEVE A DESIRED CREDIT SCORE A	IDENTIFYING DESYNCHRONIZATION BETWEEN REPRESENTATIONS OF DATA OBTAINED FROM AN ORDERED PLURALITY OF DOCUMENTS	Tine

US	US	US	US	US	US	US	SD	Sn	S	US	US	Country Code
United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
15/078,332	15/011,432	15/010,334	14/973,978	14/973,118	14/972,778	14/959,658	14/948,698	14/927,986	14/927,960	14/927,938	14/927,755	Application Number
10,482,434	11,128,839	10,225,944	9,946,866	10,445,712	10,762,245	10,023,407	10,938,719	10,068,436	9,714,149	10,013,561	9,846,982	Patent Number
VALUE TRANSFER BETWEEN DISPARATE SYSTEMS	IMAGE PROCESSING TO IDENTIFY CONDITIONS OF INTEREST WITHIN SELF-SERVICE TERMINALS	MOUNTING PLINTH FOR SELF-SERVICE TERMINAL (SST)	UNATTENDED SECURE DEVICE AUTHORIZATION	BASIC INPUT/OUTPUT SYSTEM (BIOS) CREDENTIAL MANAGEMENT	INPUT PERIPHERAL DEVICE SECURITY	MEDIA CASSETTE LOADER	METHODS OF TRANSFORMING DATA PACKETS AND SYSTEMS USING EXECUTABLE DATA PACKETS	MULTIDIRECTIONAL MEDIA DISPENSING SELF SERVICE TERMINAL	MEDIA DESKEW	DYNAMIC PRE-BOOT STORAGE ENCRYPTION KEY	DOCUMENT GEOMETRIC DEFORMATION WATERMARKING AND TRACKING	Tide

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United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
15/223,719	15/222,252	15/221,132	15/198,329	15/197,968	15/142,054	15/138,764	15/136,395	15/135,764	15/133,581	15/085,039	15/083,691	Application Number
10,067,599	10,472,191	10,106,352	9,969,583	10,167,152	9,946,653	10,475,015	10,913,628	10,275,971	11,055,679	10,026,085	10,341,369	Patent Number
TOUCHSCREEN DEFROSTER	ADAPTIVE PRESSURE MEDIA FEEDING	DOUBLE FEED RECOVERY AND PROCESSING	EJECTING DAMAGED/DEFORMED MEDIA	FOLDED MEDIA DETECTION AND PROCESSING	PREDICTIVE MEMORY CACHING	TOKEN-BASED SECURITY PROCESSING	DESKEWING MEDIA	IMAGE CORRECTION	BUNCH DOCUMENT RECYCLER	CROSS-CHANNEL SECURITY AUTHENTICATION	SECURITY SYSTEM MONITORING TECHNIQUES BY MAPPING RECEIVED SECURITY SCORE WITH NEWLY IDENTIFIED SECURITY SCORE	Tide

US	Sn	SU	SD	US	US	US	SD	SN	SU	US	Sn	Country Code
United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
15/420,036	15/420,034	15/376,578	15/365,879	15/364,676	15/364,631	15/338,771	15/337,588	15/337,369	15/335,565	15/298,980	15/298,908	Application Number
10,977,635	10,666,658	10,970,754	10,218,900	10,380,096	11,032,523	10,484,369	10,129,423	10,099,878	10,223,584	10,475,295	10,540,858	Patent Number
USER-CONTROLLED TRANSACTION AUTHORIZATION	TRUSTED NETWORK ENTITY SECURE CONNECTIVITY	REAL-TIME SERVICE STATUS	DOCUMENT REORIENTATION PROCESSING	DATA MIGRATION	AUTOMATED IMAGE METADATA PROCESSING	VOICE AUTHENTICATION VIA SECONDARY DEVICE	IMAGE SENSOR-BASED MEDIA TRACKING	MEDIA INFEED METAL DETECTION	DOCUMENT DETECTION	MEDIA REPLENISHMENT MANAGEMENT	MEDIA REPLENISHMENT MANAGEMENT	Title

US	US	US	US	US	US	US	US	Sn	US	US	US	Country Code
United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
15/475,287	15/472,315	15/471,702	15/471,566	15/471,523	15/471,512	15/454,246	15/446,594	15/444,248	15/444,225	15/437,907	15/420,038	Application Number
11,127,018	10,796,330	11,044,332	10,120,698	10,957,102	11,055,972	10,133,869	11,068,924	10,810,589	10,692,332	10,364,122	11,025,635	Patent Number
SECURE ACCESS-BASED RESOURCE DELEGATION	CHANNEL AND ENTITY INDEPENDENT REWARD PROCESSING	AUTOMATIC SERVICE LINKAGE BASED ON DISCOVERED USER ACTIVITY PATTERNS	OPERATING SYSTEM (OS) INDEPENDENT PERIPHERAL CONTROL	VIRTUAL REALITY MAINTENANCE AND REPAIR	SELF-SERVICE TERMINAL (SST) NETWORK REAL-TIME CLOUD MANAGEMENT	SELF-SERVICE TERMINAL (SST) SECURE BOOT	ACTION INDUCEMENT PROCESSING	VALIDATION OF DAMAGED BANKNOTES	REJECTION OF INVALID MEDIA	EJECTING WINDOWED AND NON-WINDOWED MEDIA	SECURE REMOTE SUPPORT AUTHORIZATION	Tide

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United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
15/794,812	15/791,625	15/785,624	15/719,188	15/718,450	15/637,441	15/608,897	15/607,855	15/607,841	15/581,629	15/543,362	15/497,336	Application Number
10,160,614	10,733,300	10,890,023	11,035,997	15/718,450	10,592,904	10,378,267	10,176,145	10,475,846	10,929,827	10,109,138	10,296,800	Patent Number
BANKNOTE FOREIGN OBJECT DETECTION USING PRESSURE SENSING ARRAY	BASIC INPUT/OUTPUT SYSTEM (BIOS)/UNIFIED EXTENSIBLE FIRMWARE INTERFACE (UEFI) HARD DRIVE AUTHENTICATION	SAFE ENCLOSURE HINGE INTEGRATED STOP	LIGHT-EMITTING INDICATOR	SELF-SERVICE TERMINAL (SST) MAINTENANCE AND SUPPORT PROCESSING	CARD SHIMMER DETECTION	SAFE PROTECTION APPARATUSES AND METHODS	INTERNET-OF-THINGS (IOT) EXTENDED PERIPHERAL SUPPORT FOR TERMINALS	MEDIA SECURITY VALIDATION	BASIC INPUT/OUTPUT SYSTEM (BIOS) AND UNIFIED EXTENSIBLE FIRMWARE INTERFACE (UEFI) ONE-TIME BOOT	STACKING AND DISPENSING MODULE T L L L L L L L L L L L L	MEDIA VALIDATION PROCESSING	Tide

US	US	US	US	US	US	US	SU	US	US	US	US	Country Code
United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
15/963,279	15/940,815	15/940,717	15/904,773	15/904,759	15/883,320	15/880,108	15/879,712	15/827,191	15/824,722	15/813,748	15/809,026	Application Number
11,075,751	10,559,170	10,741,000	10,740,997	10,931,663	10,679,450	10,671,987	10,969,622	11,210,909	10,586,416	10,266,358	10,167,153	Patent Number
MODULAR VALUABLE MEDIA RECYCLING DEVICE	ADJUSTABLE POCKET DEVICE FOR NOTE DISPENSING AND RECEIVING	RECYCLING MULTIPLE NOTES FROM A CASSETTE	VALUABLE MEDIA SUBSTRATE VALIDATION	TERMINAL AUTHENTICATED ACCESS	LIGHT EMITTING DIODE CONTROL FOR CONTACT IMAGE SENSOR WITH DIGITIZED OUTPUT DATA	SYSTEM AND METHOD FOR INTERACTING WITH A SELF- SERVICE TERMINAL	MULTI-ELEMENT BACKLIGHT TO HIGHLIGHT OR OBSCURE INFORMATIONAL ELEMENT	VALUABLE MEDIA HANDLING DEVICE WITH SECURITY PROCESSOR	MEDIA ESCROW WITH DYNAMIC DRUM POSITIONING	EJECTING DAMAGED/DEFORMED MEDIA	MEDIA INFEED METAL DETECTION	Tide

US	Sn	US	US	US	US	US	Sn	Sn	US	US	Sn	Country Code
United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
16/118,000	16/117,632	16/117,246	16/041,980	16/023,195	16/022,973	15/993,487	15/993,470	15/993,440	15/964,441	15/963,298	15/963,287	Application Number
11,652,436	10,824,988	10,947,074	10,482,723	11,593,793	10,540,857	11,475,398	10,692,230	10,706,691	10,726,655	10,916,085	10,803,711	Patent Number
ESCROW CLUTCH PROTECTION	AUTOMATED INVENTORY MANAGEMENT INCLUDING BLOCKCHAIN SMART CONTRACTING	NOTE VALIDATOR TRANSPORT PATH CENTRALIZER	MULTIDIRECTIONAL MEDIA DISPENSING SELF SERVICE TERMINAL	CRYPTOCURRENCY PAYMENT AND REFUND PROCESSING ON A TRANSACTION TERMINAL	MULTIFUNCTION INTERFACE DEVICE FOR A SELF-SERVICE TERMINAL	PRODUCT TRACEABILITY PROCESSING	DOCUMENT IMAGING USING DEPTH SENSING CAMERA	SWITCHING DUAL VIRTUAL SELF-SERVICE TERMINALS (SSTS)	SHUTTER ASSEMBLY FOR A SELF-SERVICE TERMINAL	MODULAR BANK NOTE RECYCLING DEVICE	MODULAR VALUABLE MEDIA RECYCLING DEVICE	Tide

US	US	US	US	US	US	US	US	US	S	US	US	Country Code
United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
16/586,228	16/556,401	16/506,586	16/459,845	16/453,046	16/451,705	16/416,570	16/284,100	16/221,467	16/216,594	16/119,705	16/118,024	Application Number
11,390,477	11,276,267	10,909,516	11,715,079	11,741,443	11,462,083	10,891,821	11,054,983	11,182,789	10,621,808	10,825,306	10,891,820	Patent Number
MEDIA DESKEW APPARATUS AND DESKEW METHODS	MEDIA ROTATION MECHANISM	BASIC INPUT/OUTPUT SYSTEM (BIOS) CREDENTIAL MANAGEMENT	MAINTAINING SECURE ACCESS TO A SELF-SERVICE TERMINAL (SST)	VALUE TRANSFER BETWEEN DISPARATE SYSTEMS	DISPLAY WITH INTEGRATED CAMERAS	CONFIGURABLE AND MODULAR TRANSACTION TERMINAL	GESTURAL TOUCH INTERFACE	SECURING PERSONAL IDENTIFICATION NUMBER (PIN) ENTRY ON A TRANSACTION TERMINAL	MEDIA DIVERTER AND VALUABLE MEDIA DEPOSITORY	ADJUSTABLE POCKET DEVICE FOR NOTE DISPENSING AND RECEIVING	COUNTERFEIT NOTE TRACKING	Title

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United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
16/905,565	16/896,855	16/883,414	16/881,856	16/877,203	16/845,819	16/845,654	16/844,477	16/705,383	16/696,706	16/676,653	16/662,859	Application Number
11,455,226	11,674,349	11,295,319	11,354,984	11,727,386	11,521,187	11,308,471	11,636,454	11,308,499	11,328,565	11,587,411	11,457,357	Patent Number
UNINTERRUPTED POWER SUPPLY (UPS) WITH POWER MANAGEMENT FOR SELF-SERVICE TERMINALS (SSTS)	SLIM PROFILE SAFE	FRAUD DETECTION SYSTEM AND METHOD	MEDIA SANITIZING CASSETTE AND METHOD OF OPERATION	TOUCHLESS TRANSACTION ON A TRANSACTION TERMINAL	WIRELESS DEVICE FOR RETROFITTING ATMS	AGGREGATED SESSION MANAGEMENT FOR TERMINAL DEVICES	METHODS AND SYSTEMS FOR ROUTING TRANSACTIONS BETWEEN AUTOMATED TELLER MACHINES, POINTS OF SALE, FINANCIAL INSTITUTIONS, AND SOFTWARE WALLETS	FRAUD DETECTION IN SELF-SERVICE TERMINAL	ASSET TRACKING AND NOTIFICATION PROCESSING	SUSTAINED AUTHENTICATION OF A CUSTOMER IN A PHYSICAL ENVIRONMENT	DEVICE SELF-CALIBRATION AND COMPONENT RESOLUTION	Tide

APPARATUS, SYSTEM, AND METHOD FOR BULK CURRENCY NOTE DEPOSITS	11,328,563 APP. NOT	17/238,390	United States	US
HYBRID FRAUD DETECTION SYSTEM AND METHOD	11,436,898 HYE	17/216,957	United States	US
SECURE SAFE APPARATUS AND SYSTEM	11,594,109 SEC	17/161,000	United States	SD
SANITIZING SELF-SERVICE TERMINAL	11,587,409 SAN	17/147,893	United States	US
MEDIA STORAGE BIN AND METHOD	11,568,698 MEI	17/147,076	United States	US
OPERATING SYSTEM ENCRYPTION SYSTEM AND METHOD	11,704,411 OPE	17/117,309	United States	Sn
SHORT TRAVEL PUSHER PLATE STACKING BIN	11,667,489 SHO	17/104,609	United States	US
METHODS AND SYSTEM FOR SECURELY CAPTURING AND PROVIDING TRANSACTION INFORMATION	11,699,136 MET PRO	17/084,969	United States	Sn
IMAGE SENSOR BRIDGE INTERFACE	11,570,382 IMA	17/078,192	United States	Sn
STERILIZING MEDIA CASSETTE	11,565,011 STEI	17/025,261	United States	SD
MULTI-TOUCH KEY ENTRY INTERFACE	11,551,217 MUI	17/023,659	United States	US
RECONFIGURATION OF A MEDIA RECYCLER	11,263,857 REC	17/002,155	United States	US
	Patent Title Number	Application Number	Country Name	Country Code

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United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
29/205,136	18/074,877	17/845,450	17/690,324	17/690,259	17/675,262	17/665,021	17/540,530	17/378,948	17/361,801	17/353,924	17/244,004	Application Number
D505,765	11,738,104	11,688,249	11,676,459	11,699,332	11,676,149	11,676,460	11,562,377	11,475,741	11,551,014	11,467,313	11,721,180	Patent Number
SELF-SERVICE TERMINAL	STERILIZING MEDIA CASSETTE	MEDIA ITEM TRANSPORT	MEDIA SANITIZING CASSETTE AND METHOD OF OPERATION	APPARATUS, SYSTEM, AND METHOD FOR BULK CURRENCY NOTE DEPOSITS	METHODS AND SYSTEMS FOR ROUTING TRANSACTIONS BETWEEN AUTOMATED TELLER MACHINES, POINTS OF SALE, FINANCIAL INSTITUTIONS, AND SOFTWARE WALLETS	CURRENCY TRAPPING DETECTION	FRAUD DETECTION SYSTEM AND METHOD	FRAUD DETECTION SYSTEM AND METHOD	DEVICE, SYSTEM, AND METHOD FOR CARD SKIMMING PROTECTION	FOREIGN OBJECT DETECTION SYSTEM AND METHOD Z	SELF-SERVICE TERMINAL (SST) NETWORK REAL-TIME CLOUD MANAGEMENT	Tide

US	US	US	US	Sn	Sn	US	SD	S	SD	US	US	Country Code
United States	United States	Country Name										
29/376,010	29/376,006	29/376,004	29/375,998	29/375,994	29/375,992	29/375,990	29/375,987	29/375,977	29/329,628	29/233,977	29/205,137	Application Number
D653,423	D653,422	D653,012	D653,421	D653,420	D652,601	D653,419	D653,418	D653,417	D651,784	D525,410	D505,240	Patent Number
SELF-SERVICE TERMINAL	PRIVACY SCREEN FOR A SELF-SERVICE TERMINAL	SELF-SERVICE TERMINAL	Tide									

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CONFIGURATION APPLIED ON BANK SELF-SERVICE MACHINE	DI 6001346-0	DI 6001346-0	Brazil	BR
MEDIA ITEM TRANSPORTATION	BR 10 2014 018830-4	BR1020140188304	Brazil	BR
KEYPAD	BR1020140156216	BR1020140156216	Brazil	BR
COUNTERFEIT MEDIA DETECTION	BR1020130285358	BR1020130285358	Brazil	BR
ITEM LOCATION	BR1020130280461	BR1020130280461	Brazil	BR
DEPOSIT MODULE	BR1020130251461	BR1020130251461	Brazil	BR
CASSETTE REPLENISHMENT	BR102013016356-2	BR1020130163562	Brazil	BR
PATHWAY SELECTION	BR1020130099783	BR1020130099783	Brazil	BR
SECURE ENCLOSURE	BR 10 2013 008514-6	BR1020130085146	Brazil	BR
MEDIA CASSETTE	BR 10 2012 018259-9	BR1020120182599	Brazil	BR
SELF-SERVICE TERMINAL	BR 10 2012 018258-0	BR102012018258-0	Brazil	BR
PERIPHERAL CONNECTION CONTROL DEVICE AND METHOD	BR102013033040	BR 10 2013 033040-	Brazil	BR
Tide	Patent Number	Application Number	Country Name	Country Code

BR	BR	BR	BR	BR	BR	BR	BR	BR	BR	BR	BR	Country Code
Brazil	Brazil	Brazil	Brazil	Brazil	Brazil	Brazil	Brazil	Brazil	Brazil	Brazil	Brazil	Country Name
PI11032820	PI11031921	PI10131299	PI10015477	PI07044410	PI0704415-1	PI0703503-9	PI 11068299	DI6602406-4	DI 7002528-2	DI 6603150-8	DI 6403243-4	Application Number
PI11032820	PI11031921	PI10131299	PI10015477	PI07044410	PI07044151	PI07035039	PI11068299	DI6602406-4	DI 7002528-2	DI 6603150-8	DI 6403243-4	Patent Number
SPRUNG OR FLEXIBLE STACKING FINGERS	MEDIA PRESENTER	SECURE CIRCUIT BOARD ASSEMBLY	ENCRYPTING TOUCH-SENSITIVE DISPLAY	DIVERTING STACKER WHEEL	CARD READER	SECURITY VALIDATION OF MACHINE COMPONENTS	IMPROVED PICK UNIT	ORNAMENTAL CONFIGURATION APPLIED TO A BANK SELF- SERVICE MACHINE	CONFIGURATION APPLIED TO BANKNOTE RECYCLER FOR BANK TELLER	ORNAMENTAL CONFIGURATION APPLIED TO A BANK SELF- SERVICE MACHINE	ORNAMENTAL CONFIGURATION APPLIED TO ATM	Tide

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CONFIDENTIAL	CN	Q	Ð	CN	Country Code							
TIAIL	People's Republic of China	Country Name										
	201310180771.9	201210532789.6	201210420842.3	201210389155.X	201210389154.5	201210367664.2	201210260614.4	201210251895.7	201210141381.6	201110434478.1	201110418937.7	Application Number
69	ZL201310180771.9	ZL 201210532789.6	ZL201210420842.3	ZL201210389155.X	ZL201210389154.5	ZL201210367664.2	ZL201210260614.4	ZL201210251895.7	ZL201210141381.6	ZL201110434478.1	ZL201110418937.7	Patent Number
	DATA TRANSFER BETWEEN DEVICES	DOCUMENT STACKING	MEDIA DEPOSITORY	STAIN DETECTION	DEFECT CATEGORISATION	UNIT OF A MEDIA DEPOSITORY	MEDIA CASSETTE	SELF-SERVICE TERMINAL	FRAUD PREVENTION	MEDIA PRESENTER	MEDIA PRESENTER	Title

CONFIDENTIAL	CN	S	S	S	CN	CN	Q	S	Q	CN	CN	Country Code
NTIAL	People's Republic of China	People's Republic of China	People's Republic of China	Country Name								
	201410165647.X	201410051634.X	201310694160.6	201310629916.9	201310535733.0	201310389743.8	201310321317.0	201310309082.3	201310289020.0	201310231839.1	201310202928.3	Application Number
70	ZI.201410165647.X	ZL201410051634.X	ZL201310694160.6	ZL 201310629916.9	ZL 201310535733.0	ZL 201310389743.8	ZL 201310321317.0	ZL201310309082.3	ZL201310289020.0	ZL 201310231839.1	ZL 201310202928.3	Patent Number
	ENCRYPTING PIN PAD	MEDIA ALIGNMENT	ITEM LOCATION	COUNTERFEIT MEDIA DETECTION	DEPOSIT MODULE	TRANSACTION FLOW	CASSETTE REPLENISHMENT	JAM REDUCTION	MEDIA DISPENSING SELF-SERVICE TERMINAL	ITEM VALIDATION	PATHWAY SELECTION	Title

	71.		ATIAL	CONFIDENTIAL
SELF-SERVICE TERMINAL (SST) THIN CLIENT	ZL 201510094379.1	201510094379.1	People's Republic of China	CN
UNATTENDED SECURE DEVICE AUTHORIZATION	ZL 201510088096.6	201510088096.6	People's Republic of China	Э
SELF-SERVICE TERMINAL (SST) DEVICE DRIVER	ZL 201510087826.0	201510087826.0	People's Republic of China	ð
OUT-OF-BAND MONITORING AND MANAGING OF SELF- SERVICE TERMINALS (SSTS)	ZL 201510039248.3	201510039248.3	People's Republic of China	S
MEDIA DEPOSITORY	ZL 201410499209.7	201410499209.7	People's Republic of China	Q
MOBILE VIRTUAL ATM	ZL 201410384196.9	201410384196.9	People's Republic of China	2
VIRTUALIZED ATM	ZL 201410381503.8	201410381503.8	People's Republic of China	CN
CLAMPING OF MEDIA ITEMS	ZL 201410377429.2	201410377429.2	People's Republic of China	QN
MEDIA ITEM TRANSPORTATION	ZL 201410356041.4	201410356041.4	People's Republic of China	CN
MEDIA ITEM TRANSPORTATION	ZL201410321448.3	201410321448.3	People's Republic of China	CN
KEYPAD	ZL 201410205798.3	201410205798.3	People's Republic of China	CN
Tide	Patent Number	Application Number	Country Name	Country Code

CONFIDENTIAL	CN	CN	Q	2	CN	CN	Q	S	Q	CN	CN	Country Code
NTIAL	People's Republic of China	People's Republic of China	People's Republic of China	People's Republic of China	People's Republic of China	People's Republic of China	People's Republic of China	People's Republic of China	People's Republic of China	People's Republic of China	People's Republic of China	Country Name
	201610855132.1	201610841288.4	201610710311.6	201610649806.2	201610592422.1	201610264401.7	201610010845.8	201511002997.5	201510829394.6	201510670582.9	201510522466.2	Application Number
72	ZL201610855132.1	ZL 201610841288.4	ZL 201610710311.6	ZL 201610649806.2	ZL 201610592422.1	ZL 201610264401.7	ZL201610010845.8	ZL 201511002997.5	ZL 201510829394.6	ZL 201510670582.9	ZL 201510522466.2	Patent Number
	INPUT PERIPHERAL DEVICE SECURITY	MEDIA DESKEW	COMPUTER PRE-BOOT SECURITY VERIFICATION, ENFORCEMENT, AND REMEDIATION	SELF-SERVICE TECHNICAL STATE MONITORING AND ALERTING	SELF-LOCKING SHUTTER ASSEMBLY	BIOMETRIC AUTHENTICATION OF PRE-STAGED SELF- SERVICE TERMINAL TRANSACTIONS	DOCUMENT DIVERTER	AUTHORITY TRUSTED SECURE SYSTEM COMPONENT	CRYPTOGRAPHIC SECURITY PROFILES	AUTHENTICATED AUDITABLE ATM ACCESS FOR SENSITIVE FUNCTIONS	SELF-SERVICE TERMINAL (SST) SAFE AND METHODS OF OPERATING A LOCK FOR THE SST SAFE	Title

			СШШа	
VALIDATION OF DAMAGED BANKNOTES	ZL 201810157443.X	201810157443.X	People's Republic of	CN
REJECTION OF INVALID MEDIA	ZL 201810156848.1	201810156848.1	People's Republic of China	Я
COMBINED SHUTTER AND USER INTERFACE PIN ENTRY	ZL 201810156847.7	201810156847.7	People's Republic of China	9
VIRTUAL REALITY MAINTENANCE AND REPAIR	ZL 201810156780.7	201810156780.7	People's Republic of China	9
EJECTING WINDOWED AND NON-WINDOWED MEDIA	ZL 201810152260.9	201810152260.9	People's Republic of China	S
REAL-TIME SERVICE STATUS	ZL 201711274852.X	201711274852.X	People's Republic of China	Ŋ
DATA MIGRATION	ZL 201711164930.0	201711164930.0	People's Republic of China	Ŋ
MEDIA INFEED METAL DETECTION	ZL 201711019284.9	201711019284.9	People's Republic of China	CN
TOUCHSCREEN DEFROSTER	ZL 201710427431.X	201710427431.X	People's Republic of China	Ŋ
EJECTING DAMAGED/DEFORMED MEDIA	ZL 201710342128.X	201710342128.X	People's Republic of China	Ŋ
DYNAMIC PRE-BOOT STORAGE ENCRYPTION KEY	ZL 201610866072.3	201610866072.3	People's Republic of China	CN.
Tide	Patent Number	Application Number	Country Name	Country Code

DE	DE	DE	DE	DE	CN	CN	CN	CN	CN	CN	Country Code
Germany	Germany	Germany	Germany	Germany	People's Republic of China	People's Republic of China	People's Republic of China	People's Republic of China	People's Republic of China	People's Republic of China	Country Name
04019794.9	03257717.3	03257331.3	03256950.1	03256949.3	201810430504.5	ZL201110379542.0	ZL201010273776.2	201811228565.X	201810652583.4	201810373371.2	Application Number
1510839	1453024	1437604	1431931	1431940	ZL 201810430504.5	ZL201110379542	ZL201010273776	ZL 201811228565.X	ZL 201810652583.4	ZL201810373371.2	Patent Number
AN OPTICAL MEDIA DETECTOR AND METHOD OF OPERATION THEREOF	APPARATUS FOR USE IN A SELF-SERVICE TERMINAL AND A METHOD OF PROCESSING A FINANCIAL INSTRUMENT AT A SELF-SERVICE TERMINAL	OBJECT DETECTOR	VARIABLE PRESSURE DOCUMENT INFEED TRANSPORT APPARATUS FOR USE IN A SELF-SERVICE TERMINAL	DOCUMENT PATH SELECTOR APPARATUS FOR USE IN A SELF-SERVICE TERMINAL	MEDIA SECURITY VALIDATION	MEDIA CASSETTE	SECURE CIRCUIT BOARD ASSEMBLY	BANKNOTE FOREIGN OBJECT DETECTION USING PRESSURE SENSING ARRAY	CARD SHIMMER DETECTION A PA	MEDIA VALIDATION PROCESSING	Tide

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DE	DE	DE	DE	DE	DE	DE	DE	DE	DE	DE	DE	Country Code
Germany	Germany	Germany	Germany	Germany	Germany	Germany	Germany	Germany	Germany	Germany	Germany	Country Name
05254227.1	05253854.3	05253825.3	05253560.6	05252544.1	05250956.9	05250955.1	04257568.8	04254700.0	04253772.0	04252403.3	04019795.6	Application Number
1635301	1638056	1671909	1615103	1603086	1580703	1577856	1542158	1519326	1496482	1484719	1510977	Patent Number
SENSING ARRANGEMENT	DOCUMENT DIVERTER APPARATUS FOR USE IN A SELF- SERVICE TERMINAL	DOCUMENT STACKER APPARATUS AND METHOD OF STACKING DOCUMENTS	SYSTEM FOR PROVIDING SECURE ACCESS	SECURITY MEANS FOR A SPRAY DISPENSER	ANTI-RAM RAID PLINTH	A SELF-SERVICE TERMINAL	AN ACOUSTIC COUPLING PRODUCT LABEL	BIOMETRIC SYSTEM	SELF-SERVICE TERMINAL	CURRENCY VALIDATION	A NOTE SKEW DETECTOR	Tide

FR	FR	FR	Ħ	FR	FR	FR	FR	FR	FR	FR	FR	Country Code
France	France	France	France	France	France	France	France	France	France	France	France	Country Name
05254228.9	05254227.1	05253854.3	05253825.3	05253560.6	05252544.1	05250956.9	05250955.1	04257568.8	04254700.0	04253772.0	04252403.3	Application Number
1635279	1635301	1638056	1671909	1615103	1603086	1580703	1577856	1542158	1519326	1496482	1484719	Patent Number
A CARD READER	SENSING ARRANGEMENT	DOCUMENT DIVERTER APPARATUS FOR USE IN A SELF- SERVICE TERMINAL	DOCUMENT STACKER APPARATUS AND METHOD OF STACKING DOCUMENTS	SYSTEM FOR PROVIDING SECURE ACCESS	SECURITY MEANS FOR A SPRAY DISPENSER	ANTI-RAM RAID PLINTH	A SELF-SERVICE TERMINAL	AN ACOUSTIC COUPLING PRODUCT LABEL	BIOMETRIC SYSTEM	SELF-SERVICE TERMINAL	CURRENCY VALIDATION	Title

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Œ	DE	DE	DE	DE	ÐΕ	DE	DE	ÐE	DE	DE	DE	Country Code
Germany	Germany	Germany	Germany	Germany	Germany	Germany	Germany	Germany	Germany	Germany	Germany	y Country Name
09164037.5	09150976.0	08169201.4	08169195.8	08169169.3	08169157.8	07254608.8	07253583.4	06820402.3	06255997.6	05255038.1	05254228.9	Application Number
2199987	2088565	2073144	2073282	2075771	2075691	1930269	1901205	1963446	1926063	1643068	1635279	Patent Number
OPTICAL SENSOR	SELF-SERVICE TERMINAL	A BARCODE IMAGING SYSTEM AND SOURCE OF ELECTROMAGNETIC RADIATION THEREFOR	A PHOTOCONDUCTIVE DEVICE	CARD READER DEVICE	A FRAMEWORK FOR BUILDING AN EXECUTABLE SCHEME	DIVERTING STACKER WHEEL	CARD READER	SECURE TAG	SECURE ENCLOSURE FOR SUB-ASSEMBLY OF SELF-SERVICE EQUIPMENT	A PENETRATION SCREEN	A CARD READER	Tide

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FR	FR	Ŗ	FR	FR	FR	FR	FR	FR	FR	FR	FR	Country Code
France	France	France	France	France	France	France	France	France	France	France	France	Country Name
09164348.6	09164037.5	09150976.0	08169201.4	08169195.8	08169169.3	08169157.8	07254608.8	07253583.4	06820402.3	06255997.6	05255038.1	Application Number
2199989	2199987	2088565	2073144	2073282	2075771	2075691	1930269	1901205	1963446	1926063	1643068	Patent Number
MECHANISM TO PREVENT NCR CURRENCY CASSETTES BEING OVER-FILLED	OPTICAL SENSOR	SELF-SERVICE TERMINAL	A BARCODE IMAGING SYSTEM AND SOURCE OF ELECTROMAGNETIC RADIATION THEREFOR	A PHOTOCONDUCTIVE DEVICE	CARD READER DEVICE	A FRAMEWORK FOR BUILDING AN EXECUTABLE SCHEME	DIVERTING STACKER WHEEL	CARD READER	SECURE TAG	SECURE ENCLOSURE FOR SUB-ASSEMBLY OF SELF-SERVICE EQUIPMENT	A PENETRATION SCREEN	Tide

DE	DE	DE	DE	DE	DE	DE	DE	DE	DE	DE	DE	Country Code
Germany	Germany	Germany	Germany	Germany	Germany	Germany	Germany	Germany	Germany	Germany	Germany	Country Name
11169819.7	11155292.3	10193383.6	10177279.6	10176492.6	10173742.7	10172970.5	10172271.8	10172139.7	10162350.2	10157172.7	09164348.6	Application Number
2405408	2388425	2339845	2316764	2305585	2315185	2306363	2290623	2330528	2266905	2280363	2199989	Patent Number
CONSTANT FORCE - DRIVEN PRESSURE PADDLE	SIMPLIFIED POLYMER CONCRETE CONSTRUCTION FOR SECURITY ENCLOSURES	METHODS AND APPARATUS FOR SELECTING AND DELIVERING CONTENT	DOCUMENT PROCESSING APPARATUS AND METHOD OF OPERATING A DOCUMENT PROCESSING APPARATUS	MOVING TRACK BOTTOM FOR DOCUMENT DESKEW	MEDIA HANDLING	MULTI-TOUCH SURFACE INTERACTION	DYNAMIC CAPACITY MEDIA DEPOSIT BIN	SECURE CIRCUIT BOARD ASSEMBLY	MEDIA TRANSPORT	ENCRYPTING TOUCH-SENSITIVE DISPLAY	MECHANISM TO PREVENT NCR CURRENCY CASSETTES BEING OVER-FILLED	Tide

FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	Country Code
France	France	France	France	France	France	France	France	France	France	France	France	Country Name
11174940.4	11169819.7	11155292.3	10193383.6	10177279.6	10176492.6	10173742.7	10172970.5	10172271.8	10172139.7	10162350.2	10157172.7	Application Number
2423890	2405408	2388425	2339845	2316764	2305585	2315185	2306363	2290623	2330528	2266905	2280363	Patent Number
SECONDARY TOUCH DISPLAY AS INTERACTION, SECURITY AND INFORMATION PROVISION TOOL	CONSTANT FORCE - DRIVEN PRESSURE PADDLE	SIMPLIFIED POLYMER CONCRETE CONSTRUCTION FOR SECURITY ENCLOSURES	METHODS AND APPARATUS FOR SELECTING AND DELIVERING CONTENT	DOCUMENT PROCESSING APPARATUS AND METHOD OF OPERATING A DOCUMENT PROCESSING APPARATUS	MOVING TRACK BOTTOM FOR DOCUMENT DESKEW	MEDIA HANDLING	MULTI-TOUCH SURFACE INTERACTION	DYNAMIC CAPACITY MEDIA DEPOSIT BIN	SECURE CIRCUIT BOARD ASSEMBLY	MEDIA TRANSPORT	ENCRYPTING TOUCH-SENSITIVE DISPLAY	Tide

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SELF-SERVICE TERMINAL	2551813	12170758.2	Germany	DE
MEDIA CASSETTE	2551830	12170753.3	Germany	DE
MEDIA PRESENTER	2469483	11188065.4	Germany	Œ
MEDIA PRESENTER	2469482	11188026.6	Germany	Œ
MEDIA CASSETTE	2458567	11187139.8	Germany	DE
MEDIA CASSETTE	2458566	11187055.6	Germany	DE
IMPROVED PICK UNIT	2452902	11183947.8	Germany	DE
MEDIA RECYCLER	2428938	11177550.8	Germany	DE
MEDIA PRESENTER	2423140	11175268.9	Germany	DE
MEDIA TRANSPORT MODULE	2423138	11175212.7	Germany	DE
SPRUNG OR FLEXIBLE STACKING FINGERS	2423139	11175035.2	Germany	DE
SECONDARY TOUCH DISPLAY AS INTERACTION, SECURITY AND INFORMATION PROVISION TOOL	2423890	11174940.4	Germany	DE
Tide	Patent Number	Application Number	Country Name	Country Code

FR	FR	FR	Ŧ	FR	FR	FR	FR	FR	FR	FR	FR	Country Code
France	France	France	France	France	France	France	France	France	France	France	France	Country Name
16180346.5	15201720.8	15196526.6	15194705.8	15194629.0	15191173.2	15187883.2	15153254.6	14182916.8	14173080.4	14173074.7	14173073.9	Application Number
3136280	3089063	3061714	3051476	3051768	3026594	3009951	2916255	2876613	2832673	2832672	2835330	Patent Number
SELF-SERVICE TECHNICAL STATE MONITORING AND ALERTING	BIOMETRIC AUTHENTICATION OF PRE-STAGED SELF- SERVICE TERMINAL TRANSACTIONS	DOCUMENT DIVERTER	AUTHORITY TRUSTED SECURE SYSTEM COMPONENT	SECURE DATA TRANSMISSION	CRYPTOGRAPHIC SECURITY PROFILES	AUTHENTICATED AUDITABLE ATM ACCESS FOR SENSITIVE FUNCTIONS	UNATTENDED SECURE DEVICE AUTHORIZATION	MEDIA DEPOSITORY	MEDIA ITEM TRANSPORTATION	MEDIA ITEM TRANSPORTATION	CLAMPING OF MEDIA ITEMS	Tide

FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	Country Code
France	France	France	France	France	France	France	France	France	France	France	France	Country Name
18215242.1	18200721.1	18172454.3	18167596.8	18156856.9	17183086	17175302.3	16704488.2	16183650.7	16183390.0	16183362.9	16180355.6	Application Number
3518516	3477603	3409871	3396642	3367347	3276471	3263495	3248178	3182325	3165484	3163492	3136281	Patent Number
LIGHT EMITTING DIODE CONTROL FOR CONTACT IMAGE SENSOR WITH DIGITIZED OUTPUT DATA	BANKNOTE FOREIGN OBJECT DETECTION USING PRESSURE SENSING ARRAY	SAFE PROTECTION APPARATUSES AND METHODS	MEDIA VALIDATION PROCESSING	VALIDATION OF DAMAGED BANKNOTES	TOUCHSCREEN DEFROSTER	EJECTING DAMAGED/DEFORMED MEDIA	STACKING AND DISPENSING MODULE	INPUT PERIPHERAL DEVICE SECURITY	MEDIA DESKEW	DYNAMIC PRE-BOOT STORAGE ENCRYPTION KEY	COMPUTER PRE-BOOT SECURITY VERIFICATION, ENFORCEMENT, AND REMEDIATION	Tide

DE	DE	Ę	DE	ЭE	DE	DE	ÐΕ	DE	DE	Ha	DE	Country Code
Germany	Germany	Germany	Germany	Germany	Germany	Germany	Germany	Germany	Germany	Germany	Germany	Country Name
15201720.8	15196526.6	15194705.8	15194629.0	15191173.2	15187883.2	15153254.6	14182916.8	14173080.4	14173074.7	14173073.9	14152208.6	Application Number
3089063	3061714	3051476	3051768	3026594	3009951	2916255	2876613	2832673	2832672	2835330	2769948	Patent Number
BIOMETRIC AUTHENTICATION OF PRE-STAGED SELF- SERVICE TERMINAL TRANSACTIONS	DOCUMENT DIVERTER	AUTHORITY TRUSTED SECURE SYSTEM COMPONENT	SECURE DATA TRANSMISSION	CRYPTOGRAPHIC SECURITY PROFILES	AUTHENTICATED AUDITABLE ATM ACCESS FOR SENSITIVE FUNCTIONS	UNATTENDED SECURE DEVICE AUTHORIZATION	MEDIA DEPOSITORY	MEDIA ITEM TRANSPORTATION	MEDIA ITEM TRANSPORTATION	CLAMPING OF MEDIA ITEMS	MEDIA ALIGNMENT	Tide

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GB	GВ	GB	GB	GB	GB	Œ	GB	GB	GB	GB	FR	Country Code
United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	France	Country Name
05250955.1	04257568.8	04254700.0	04253772.0	04252403.3	04019795.6	04019794.9	03257717.3	03257331.3	03256950.1	03256949.3	18248018.6	Application Number
1577856	1542158	1519326	1496482	1484719	1510977	1510839	1453024	1437604	1431931	1431940	3547273	Patent Number
A SELF-SERVICE TERMINAL	AN ACOUSTIC COUPLING PRODUCT LABEL	BIOMETRIC SYSTEM	SELF-SERVICE TERMINAL	CURRENCY VALIDATION	A NOTE SKEW DETECTOR	AN OPTICAL MEDIA DETECTOR AND METHOD OF OPERATION THEREOF	APPARATUS FOR USE IN A SELF-SERVICE TERMINAL AND A METHOD OF PROCESSING A FINANCIAL INSTRUMENT AT A SELF-SERVICE TERMINAL	OBJECT DETECTOR	VARIABLE PRESSURE DOCUMENT INFEED TRANSPORT APPARATUS FOR USE IN A SELF-SERVICE TERMINAL	DOCUMENT PATH SELECTOR APPARATUS FOR USE IN A SELF-SERVICE TERMINAL	RECYCLING MULTIPLE NOTES FROM A CASSETTE	Title

DE	DE	DE	DE	DE	DE	DE	DE	DE	DE	E	DE	Country Code
Germany	Germany	Germany	Germany	Germany	Gегmаny	Germany	Germany	Gегшапу	Germany	Germany	Germany	Country Name
18200721.1	18172454.3	18167596.8	18156856.9	17183086	17175302.3	16704488.2	16183650.7	16183390.0	16183362.9	16180355.6	16180346.5	Application Number
3477603	3409871	3396642	3367347	3276471	3263495	3248178	3182325	3165484	3163492	3136281	3136280	Patent Number
BANKNOTE FOREIGN OBJECT DETECTION USING PRESSURE SENSING ARRAY	SAFE PROTECTION APPARATUSES AND METHODS	MEDIA VALIDATION PROCESSING	VALIDATION OF DAMAGED BANKNOTES	TOUCHSCREEN DEFROSTER	EJECTING DAMAGED/DEFORMED MEDIA	STACKING AND DISPENSING MODULE	INPUT PERIPHERAL DEVICE SECURITY	MEDIA DESKEW	DYNAMIC PRE-BOOT STORAGE ENCRYPTION KEY	COMPUTER PRE-BOOT SECURITY VERIFICATION, ENFORCEMENT, AND REMEDIATION	SELF-SERVICE TECHNICAL STATE MONITORING AND ALERTING	Tide

GB	GB	GB	GB	GB	GB	GВ	GB	GB	æ	GB	GB	Country Code
United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	Country Name
07254608.8	07253583.4	06820402.3	06255997.6	05255038.1	05254228.9	05254227.1	05253854.3	05253825.3	05253560.6	05252544.1	05250956.9	Application Number
1930269	1901205	1963446	1926063	1643068	1635279	1635301	1638056	1671909	1615103	1603086	1580703	Patent Number
DIVERTING STACKER WHEEL	CARD READER	SECURE TAG	SECURE ENCLOSURE FOR SUB-ASSEMBLY OF SELF-SERVICE EQUIPMENT	A PENETRATION SCREEN	A CARD READER	SENSING ARRANGEMENT	DOCUMENT DIVERTER APPARATUS FOR USE IN A SELF- SERVICE TERMINAL	DOCUMENT STACKER APPARATUS AND METHOD OF STACKING DOCUMENTS	SYSTEM FOR PROVIDING SECURE ACCESS	SECURITY MEANS FOR A SPRAY DISPENSER	ANTI-RAM RAID PLINTH	Tide

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ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	DE	DE	Country Code
Spain	Spain	Spain	Spain	Spain	Spain	Spain	Spain	Spain	Spain	Germany	Germany	Country Name
06820402.3	05254228.9	05254227.1	05253854.3	05250955.1	04257568.8	04019795.6	03257717.3	03256950.1	03256949.3	18248018.6	18215242.1	Application Number
1963446	1635279	1635301	1638056	1577856	1542158	1510977	1453024	1431931	1431940	3547273	3518516	Patent Number
SECURE TAG	A CARD READER	SENSING ARRANGEMENT	DOCUMENT DIVERTER APPARATUS FOR USE IN A SELF- SERVICE TERMINAL	A SELF-SERVICE TERMINAL	AN ACOUSTIC COUPLING PRODUCT LABEL	A NOTE SKEW DETECTOR	APPARATUS FOR USE IN A SELF-SERVICE TERMINAL AND A METHOD OF PROCESSING A FINANCIAL INSTRUMENT AT A SELF-SERVICE TERMINAL	VARIABLE PRESSURE DOCUMENT INFEED TRANSPORT APPARATUS FOR USE IN A SELF-SERVICE TERMINAL	DOCUMENT PATH SELECTOR APPARATUS FOR USE IN A SELF-SERVICE TERMINAL	RECYCLING MULTIPLE NOTES FROM A CASSETTE	LIGHT EMITTING DIODE CONTROL FOR CONTACT IMAGE SENSOR WITH DIGITIZED OUTPUT DATA	Tide

GB	GB	GB	GB	GB	GB	GB	GB	GB	Œ	GB	GB	Country Code
United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	Country Name
10172970.5	10172271.8	10172139.7	10162350.2	10157172.7	09164348.6	09164037.5	09150976.0	08169201.4	08169195.8	08169169.3	08169157.8	Application Number
2306363	2290623	2330528	2266905	2280363	2199989	2199987	2088565	2073144	2073282	2075771	2075691	Patent Number
MULTI-TOUCH SURFACE INTERACTION	DYNAMIC CAPACITY MEDIA DEPOSIT BIN	SECURE CIRCUIT BOARD ASSEMBLY	MEDIA TRANSPORT	ENCRYPTING TOUCH-SENSITIVE DISPLAY	MECHANISM TO PREVENT NCR CURRENCY CASSETTES BEING OVER-FILLED	OPTICAL SENSOR	SELF-SERVICE TERMINAL	A BARCODE IMAGING SYSTEM AND SOURCE OF ELECTROMAGNETIC RADIATION THEREFOR	A PHOTOCONDUCTIVE DEVICE	CARD READER DEVICE	A FRAMEWORK FOR BUILDING AN EXECUTABLE SCHEME	Title

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France	France	France	France	France	France	Spain	Spain	Spain	Spain	Spain	Spain	Country Name
04019795.6	04019794.9	03257717.3	03257331.3	03256950.1	03256949.3	05252544.1	10173742:7	10172271.8	09164348.6	07254608.8	07253583.4	Application Number
1510977	1510839	1453024	1437604	1431931	1431940	1603086	2315185	2290623	2199989	1930269	1901205	Patent Number
A NOTE SKEW DETECTOR	AN OPTICAL MEDIA DETECTOR AND METHOD OF OPERATION THEREOF	APPARATUS FOR USE IN A SELF-SERVICE TERMINAL AND A METHOD OF PROCESSING A FINANCIAL INSTRUMENT AT A SELF-SERVICE TERMINAL	OBJECT DETECTOR	VARIABLE PRESSURE DOCUMENT INFEED TRANSPORT APPARATUS FOR USE IN A SELF-SERVICE TERMINAL	DOCUMENT PATH SELECTOR APPARATUS FOR USE IN A SELF-SERVICE TERMINAL	SECURITY MEANS FOR A SPRAY DISPENSER	MEDIA HANDLING	DYNAMIC CAPACITY MEDIA DEPOSIT BIN	MECHANISM TO PREVENT NCR CURRENCY CASSETTES BEING OVER-FILLED	DIVERTING STACKER WHEEL	CARD READER	Title

GB	GB	GB	Œ	GB	æ	æ	GB	GВ	&	GB	GB	Country Code
United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	Country Name
11183947.8	11177550.8	11175268.9	11175212.7	11175035.2	11174940.4	11169819.7	11155292.3	10193383.6	10177279.6	10176492.6	10173742.7	Application Number
2452902	2428938	2423140	2423138	2423139	2423890	2405408	2388425	2339845	2316764	2305585	2315185	Patent Number
IMPROVED PICK UNIT	MEDIA RECYCLER	MEDIA PRESENTER	MEDIA TRANSPORT MODULE	SPRUNG OR FLEXIBLE STACKING FINGERS	SECONDARY TOUCH DISPLAY AS INTERACTION, SECURITY AND INFORMATION PROVISION TOOL	CONSTANT FORCE - DRIVEN PRESSURE PADDLE	SIMPLIFIED POLYMER CONCRETE CONSTRUCTION FOR SECURITY ENCLOSURES	METHODS AND APPARATUS FOR SELECTING AND DELIVERING CONTENT	DOCUMENT PROCESSING APPARATUS AND METHOD OF OPERATING A DOCUMENT PROCESSING APPARATUS	MOVING TRACK BOTTOM FOR DOCUMENT DESKEW	MEDIA HANDLING	Tide

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GB	GB	GB	GB	GB	GB	GB	GB	GB	GB	GB	GB	Country Code
United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	Country Name
1313132.1	12184920.2	12182216.7	12182135.9	12180365.4	12180349	12170758.2	12170753.3	11188065.4	11188026.6	11187139.8	11187055.6	Application Number
2506485	2600321	2586738	2574579	2660787	2645339	2551813	2551830	2469483	2469482	2458567	2458566	Patent Number
 USER TERMINAL CONTROL SYSTEM AND METHOD	DOCUMENT STACKING	MEDIA DEPOSITORY	UNIT OF A MEDIA DEPOSITORY	DEFECT CATEGORISATION	STAIN DETECTION	SELF-SERVICE TERMINAL	MEDIA CASSETTE	MEDIA PRESENTER	MEDIA PRESENTER	MEDIA CASSETTE	MEDIA CASSETTE	Title

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GB	GB	GB	GB	GB	GB	GB	GB	GB	GB	GB	GB	Country Code
United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	Country Name
14182916.8	14173080.4	14173074.7	14173073.9	14152208.6	13184384.9	13184010.0	6.608081£1	13168735.2	13168222.1	13162985.9	13160049.6	Application Number
2876613	2832673	2832672	2835330	2769948	2743894	2759504	2728558	2693411	2687467	2674923	2669226	Patent Number
MEDIA DEPOSITORY	MEDIA ITEM TRANSPORTATION	MEDIA ITEM TRANSPORTATION	CLAMPING OF MEDIA ITEMS	MEDIA ALIGNMENT	COUNTERFEIT MEDIA DETECTION	ITEM LOCATION	DEPOSIT MODULE	CASSETTE REPLENISHMENT	JAM REDUCTION	ITEM VALIDATION	PATHWAY SELECTION	Tide

GB	GB	GB	GB	GВ	GB	GB	GВ	GB	GB	GB	GB	Country Code
United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	Country Name
16183650.7	16183390.0	16183362.9	16180355.6	16180346.5	15201720.8	15196526.6	15194705.8	15194629.0	15191173.2	15187883.2	15153254.6	Application Number
3182325	3165484	3163492	3136281	3136280	3089063	3061714	3051476	3051768	3026594	3009951	2916255	Patent Number
INPUT PERIPHERAL DEVICE SECURITY	MEDIA DESKEW	DYNAMIC PRE-BOOT STORAGE ENCRYPTION KEY	COMPUTER PRE-BOOT SECURITY VERIFICATION, ENFORCEMENT, AND REMEDIATION	SELF-SERVICE TECHNICAL STATE MONITORING AND ALERTING	BIOMETRIC AUTHENTICATION OF PRE-STAGED SELF- SERVICE TERMINAL TRANSACTIONS	DOCUMENT DIVERTER	AUTHORITY TRUSTED SECURE SYSTEM COMPONENT	SECURE DATA TRANSMISSION	CRYPTOGRAPHIC SECURITY PROFILES	AUTHENTICATED AUDITABLE ATM ACCESS FOR SENSITIVE FUNCTIONS	UNATTENDED SECURE DEVICE AUTHORIZATION	Tide

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United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	Country Name
002205401-0001	3015256	3015255	18248018.6	18215242.1	18200721.1	18172454.3	18167596.8	18156856.9	17183086	17175302.3	16704488.2	Application Number
002205401-0001	3015256	3015255	3547273	3518516	3477603	3409871	3396642	3367347	3276471	3263495	3248178	Patent Number
AUTOMATIC TELLER MACHINES	SELF-SERVICE TERMINAL	SELF-SERVICE TERMINAL	RECYCLING MULTIPLE NOTES FROM A CASSETTE	LIGHT EMITTING DIODE CONTROL FOR CONTACT IMAGE SENSOR WITH DIGITIZED OUTPUT DATA	BANKNOTE FOREIGN OBJECT DETECTION USING PRESSURE SENSING ARRAY	SAFE PROTECTION APPARATUSES AND METHODS	MEDIA VALIDATION PROCESSING	VALIDATION OF DAMAGED BANKNOTES	TOUCHSCREEN DEFROSTER	EJECTING DAMAGED/DEFORMED MEDIA	STACKING AND DISPENSING MODULE	Title

GASPER	ACCESS EXPANDED	SENSE (STYLIZED)	PADLOCK (SMALL)	PADLOCK - SMALL	KALPANA	KALPANA	BRANCHMASTER	BRANCHMASTER	ADATTIS	BRANCHVIEW	Trademark
United States	United States	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	Japan	Country
78218712	98165577	UK00003237247	00903907896	00903907912	00913860499	013860499	1,353,343	1,353,342	00908563025	77079/1995	Application No.
25-FEB-2003	05-SEP-2023	14-JUN-2017	28-JUN-2004	28-JUN-2004	20-MAR-2015	20-MAR-2015	27-JUL-1988	27-JUL-1988	21-SEP-2009	27-JUL-1995	Filing Date
		UK00003237247	00903907896	00903907912	00913860499	013860499	1,353,343	1,353,342	00908563025	4,201,769	Registration No.
		08-SEP-2017	16-JUN-2005	15-NOV-2005	22-JUL-2015	22-JUL-2015	20-APR-1990	09-MAR-1990	18-JUL-2012	23-OCT-1998	Registration Date
Abandoned	Pending	Registered	Registered	Registered	Registered	Registered	Lapsed	Lapsed	Registered	Lapsed	Status
NCR Corporation	NCR Corporation	NCR Corporation	NCR Corporation	NCR Corporation	NCR Corporation	NCR Corporation	NCR International, Inc.	NCR International, Inc.	Origami Brasil Tecnologia E Servicios Em Automacao Ltda	NCR International, Inc.	Assignee
	United States 78218712 25-FEB-2003 Abandoned	ED United States 98165577 05-SEP-2023 Pending United States 78218712 25-FEB-2003 Abandoned	ED) United Kingdom UK00003237247 14-JUN-2017 UK00003237247 08-SEP-2017 Registered ED United States 98165577 05-SEP-2023 Pending ED United States 78218712 25-FEB-2003 Abandoned	K United Kingdom 00903907896 28-JUN-2004 00903907896 16-JUN-2005 Registered United ED) United States UK00003237247 14-JUN-2017 UK00003237247 08-SEP-2017 Registered ED United States 98165577 05-SEP-2023 Pending United States 78218712 25-FEB-2003 Abandoned	K - United Kingdom 00903907912 28-JUN-2004 00903907912 15-NOV-2005 Registered K United Kingdom 00903907896 28-JUN-2004 00903907896 16-JUN-2005 Registered ED) United States 98165577 05-SEP-2023 UK00003237247 08-SEP-2017 Pending ED United States 78218712 25-FEB-2003 Abandoned	A United Kingdom 00913860499 20-MAR-2015 00913860499 22-JUL-2015 Registered K - United Kingdom 00903907912 28-JUN-2004 00903907912 15-NOV-2005 Registered K United Kingdom 00903907896 28-JUN-2004 00903907896 16-JUN-2005 Registered ED) United Kingdom UK00003237247 14-JUN-2017 UK00003237247 08-SEP-2017 Registered ED) United States 98165577 05-SEP-2023 Pending United States 78218712 25-FEB-2003 Abandoned	A United Kingdom 013860499 20-MAR-2015 013860499 22-JUL-2015 Registered A United Kingdom 00913860499 20-MAR-2015 00913860499 22-JUL-2015 Registered K - United Kingdom 00903907912 28-JUN-2004 00903907912 15-NOV-2005 Registered K United Kingdom 00903907896 28-JUN-2004 00903907896 16-JUN-2005 Registered ED) United Kingdom UK00003237247 14-JUN-2017 UK00003237247 08-SEP-2017 Registered ED) United States 98165577 05-SEP-2023 Pending ED United States 78218712 25-FEB-2003 Abandoned	IMASTER United Kingdom 1.353.343 27-JUL-1988 1.353.343 20-APR-1990 Lapsed IA United Kingdom 013860499 20-MAR-2015 013860499 22-JUL-2015 Registered IA United Kingdom 00913860499 20-MAR-2015 00913860499 22-JUL-2015 Registered K- United Kingdom 00903907912 28-JUN-2004 00903907912 15-NOV-2005 Registered K United Kingdom 00903907896 28-JUN-2004 00903907896 16-JUN-2005 Registered ED) United States 98165577 05-SEP-2023 UK00003237247 08-SEP-2017 Registered ED United States 78218712 25-FEB-2003 Abandoned Abandoned	Image United Kingdom 1,353,342 27-JUL-1988 1,353,342 09-MAR-1990 Lapsed NCR International, Inc. Image United Kingdom 1,353,343 27-JUL-1988 1,353,343 20-APR-1990 Lapsed NCR International, Inc. A United Kingdom 013860499 20-MAR-2015 013860499 22-JUL-2015 Registered NCR Corporation K - United Kingdom 00913860499 20-MAR-2015 00913860499 22-JUL-2015 Registered NCR Corporation K - United Kingdom 00903907912 28-JUN-2004 00903907912 15-NOV-2005 Registered NCR Corporation K Kingdom United States 98165577 05-SEP-2023 UK00003237247 08-SEP-2017 Registered NCR Corporation ED United States 78218712 25-FEB-2003 Abandoned NCR Corporation	S United Kingdom 00908563025 21-SEP-2009 00908563025 18-JUL-2012 Registered MASTER United Kingdom 1.353,342 27-JUL-1988 1.353,342 09-MAR-1990 Lapsed IMASTER United Kingdom 1.353,343 27-JUL-1988 1.353,343 20-APR-1990 Lapsed IA United Kingdom 013860499 20-MAR-2015 013860499 22-JUL-2015 Registered K- United Kingdom 00913860499 20-MAR-2015 00913860499 22-JUL-2015 Registered K- United Kingdom 00903907912 28-JUN-2004 00903907912 15-NOV-2005 Registered K United Kingdom 00903907896 28-JUN-2004 00903907896 16-JUN-2005 Registered K Kingdom 00903907896 28-JUN-2001 00903907896 16-JUN-2005 Registered ED) United States 98165577 05-SEP-2023 United States Abandoned	VIEW Japan 77079/1995 27-JUL-1995 4,201,769 23-OCT-1998 Lapsed NCR International, Inc.

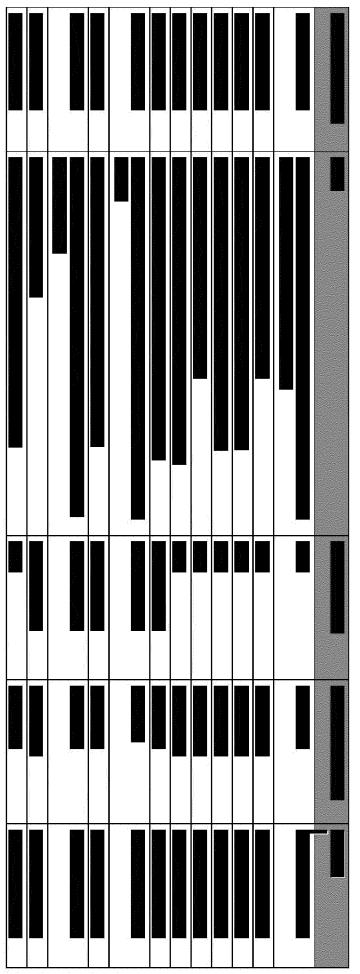
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United Kingdom	Country Name											
90010585310016	90010585310015	90010585310014	90010585310013	90010585310012	90010585310011	90010585310010	90010585310009	90010585310008	90010585310007	90010585310006	90010585310005	Application Number
1058531-0016	1058531-0015	1058531-0014	1058531-0013	1058531-0012	1058531-0011	1058531-0010	1058531-0009	1058531-0008	1058531-0007	1058531-0006	1058531-0005	Patent Number
PAYMENT TERMINALS	LINE											

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09-JAN-1979
09-SEP-2008
25-OCT-2005
16-OCT-2018
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24-JUN-1997
Registration Date

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United	United Kingdom	y Country Name										
90010585310028	90010585310027	90010585310026	90010585310025	90010585310024	90010585310023	90010585310022	90010585310021	90010585310020	90010585310019	90010585310018	90010585310017	Application Number
1058531-0028	1058531-0027	1058531-0026	1058531-0025	1058531-0024	1058531-0023	1058531-0022	1058531-0021	1058531-0020	1058531-0019	1058531-0018	1058531-0017	Patent Number
PAYMENT TERMINALS	Tide											

Registered Copyrights and Applications Therefor:



GB	GВ	GB	GB	GB	GB	GB	GB	GВ	GB	GB	GВ	Country Code
United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	Country Name
90021883750004	90021883750003	90021883750002	90021883750001	90021494680001	90018867060002	90018867060001	90016744090001	90010868540001	90010585310031	90010585310030	90010585310029	Application Number
002188375-0004	002188375-0003	002188375-0002	002188375-0001	002149468-0001	001886706-0002	001886706-0001	001674409-0001	001086854-0001	1058531-0031	1058531-0030	1058531-0029	Patent Number
AUTOMATIC TELLER MACHINES [ON-LINE BANKING TERMINALS]	AUTOMATIC TELLER MACHINES	AUTOMATIC TELLER MACHINES	AUTOMATIC TELLER MACHINES	AUTOMATIC TELLER MACHINES	AUTOMATIC TELLER MACHINES, PAYMENT TERMINALS	PAYMENT TERMINALS	PAYMENT TERMINALS	PAYMENT TERMINALS	Tide			

GB	GB	GB	GB	GB	GB	GB	GВ	GВ	GB	GВ	Country Code
United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	United Kingdom	Country Name
90033201670001	90033201590001	90033201000001	90033194660001	90029921070001	90026595240001	90021883750009	90021883750008	90021883750007	90021883750006	90021883750005	Application Number
003320167-0001	003320159-0001	003320100-0001	003319466-0001	002992107-0001	002659524-0001	002188375-0009	002188375-0008	002188375-0007	002188375-0006	002188375-0005	Patent Number
DESIGN OF MULTIFUNCTIONAL SELF-SERVICE TERMINALS (PART OF -), PAYMENT TERMINALS (PART OF -), AUTOMATIC TELLER MACHINES [ON-LINE BANKING TERMINALS] (PART OF -)	MULTIFUNCTIONAL SELF-SERVICE TERMINALS, PAYMENT TERMINALS, AUTOMATIC TELLER MACHINES [ON-LINE BANKING TERMINALS]	MULTIFUNCTIONAL SELF-SERVICE TERMINALS, PAYMENT TERMINALS, AUTOMATIC TELLER MACHINES [ON-LINE BANKING TERMINALS]	MULTIFUNCTIONAL SELF-SERVICE TERMINALS, PAYMENT TERMINALS, AUTOMATIC TELLER MACHINES [ON-LINE BANKING TERMINALS]	MULTIFUNCTIONAL SELF-SERVICE TERMINALS	PAYMENT TERMINALS	AUTOMATIC TELLER MACHINES [ON-LINE BANKING TERMINALS]	Tide				

Country Code	Country Name	Application Number	Patent Number	Tide
GB	United Kingdom	90033205890001	003320589-0001	DESIGN OF MULTIFUNCTIONAL SELF-SERVICE TERMINALS (PART OF -), PAYMENT TERMINALS (PART OF -), AUTOMATIC TELLER MACHINES [ON-LINE BANKING TERMINALS] (PART OF -)
GB	United Kingdom	90038336720001	003833672-0001	MULTIFUNCTIONAL SELF-SERVICE TERMINALS
GB	United Kingdom	90051100120001	005110012-0001	ATM
GB	United Kingdom	90051100120002	005110012-0002	ATM
GВ	United Kingdom	90051100120003	005110012-0003	ATM
GB	United Kingdom	90051100120004	005110012-0004	ATM
GB	United Kingdom	90079381620001	007938162-0001	SELF SERVICE TERMINAL
GB	United Kingdom	90079381620002	007938162-0002	SELF SERVICE TERMINAL
GB	United Kingdom	1058531-0001	1000-1828501	PAYMENT TERMINALS
Z	India	1686/CHE/2012	422513	FRAUD PREVENTION
Z	India	201844006710	400253	VALIDATION OF DAMAGED BANKNOTES
Z	India	201844015232	380533	MEDIA VALIDATION PROCESSING
CONFIDENTIAL	TAIT		104	

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India	India	India	India	India	India	India	India	India	India	India	India	Country Name
2890/CHE/2011	2838/CHE/2011	2492/CHE/2010	2344/CHE/2008	2302/CHE/2013	2300/CHE/2011	2120/CHE/2010	2076/CHE/2007	2075/CHE/2007	205/CHE/2009	2033/CHE/2014	201844019241	Application Number
394528	361365	392007	311482	336985	312475	380255	283805	283873	344088	341962	381536	Patent Number
MEDIA PRESENTER	SECONDARY TOUCH DISPLAY AS INTERACTION, SECURITY AND INFORMATION PROVISION TOOL	SECURE CIRCUIT BOARD ASSEMBLY	SELF-SERVICE TERMINAL	PATHWAY SELECTION	MEDIA DEPOSITORY	ASSISTED SERVICE TERMINAL	SECURITY VALIDATION OF MACHINE COMPONENTS	CARD READER	SELF-SERVICE TERMINAL	KEYPAD	MEDIA SECURITY VALIDATION	Title

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5448/CHE/2015	5307/CHE/2013	4466/CHE/2011	4462/CHE/2011	4422/CHE/2013	4369/CHE/2012	4118/CHE/2013	4055/CHE/2011	4054/CHE/2011	4030/CHE/2012	3901/CHE/2011	3211/CHE/2008	Application Number
428227	444061	308658	314952	376642	381728	373242	323991	320025	401540	312104	386714	Patent Number
AUTHENTICATED AUDITABLE ATM ACCESS FOR SENSITIVE FUNCTIONS	LOW COST DEPOSIT THROUGH HYBRID WORKFLOW	MEDIA PRESENTER	MEDIA PRESENTER	COUNTERFEIT MEDIA DETECTION	MEDIA DEPOSITORY	DEPOSIT MODULE	MEDIA CASSETTE	MEDIA CASSETTE	UNIT OF A MEDIA DEPOSITORY AND METHOD OF OPERATING THE SAME	IMPROVED PICK UNIT	DEVICE MANAGEMENT PORTAL, SYSTEM AND METHOD	Title

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Italy	Italy	Italy	Italy	Italy	Italy	Italy	Italy	Italy	Italy	Italy	India	Country Name
07253583.4	06820402.3	05254228.9	05254227.1	05253854.3	05252544.1	04257568.8	04019795.6	03257717.3	03256950.1	03256949.3	895/CHE/2015	Application Number
1901205	1963446	1635279	1635301	1638056	1603086	1542158	1510977	1453024	1431931	1431940	386160	Patent Number
CARD READER	SECURE TAG	A CARD READER	SENSING ARRANGEMENT	DOCUMENT DIVERTER APPARATUS FOR USE IN A SELF- SERVICE TERMINAL	SECURITY MEANS FOR A SPRAY DISPENSER	AN ACOUSTIC COUPLING PRODUCT LABEL	A NOTE SKEW DETECTOR	APPARATUS FOR USE IN A SELF-SERVICE TERMINAL AND A METHOD OF PROCESSING A FINANCIAL INSTRUMENT AT A SELF-SERVICE TERMINAL	VARIABLE PRESSURE DOCUMENT INFEED TRANSPORT APPARATUS FOR USE IN A SELF-SERVICE TERMINAL	DOCUMENT PATH SELECTOR APPARATUS FOR USE IN A SELF-SERVICE TERMINAL	END-TO-END DEVICE AUTHENTICATION	Tide

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JP	JP A	JP	Ŧ	JP	TP	IP	JP	JP	JP	JP	Country Code
Japan	Japan Japan	Japan	Japan	Japan	Japan	Japan	Japan	Japan	Japan	Japan	Country Name
2011-183932	2011-183927	2011-178099	2011-150584	2010-513175	2008-545088	2008-545086	2008-545069	2008-295143	2007-338730	2007-237377	Application Number
6008418	5830306	5794625	5774393	5090526	5175210	5177817	5219211	5376630	5344668	5117802	Patent Number
MEDIA TRANSPORT MODULE	S2 MULTI COMPARTMENT BIN	SECONDARY TOUCH DISPLAY AS INTERACTION, SECURITY AND INFORMATION PROVISION TOOL	CONSTANT FORCE - DRIVEN PRESSURE PADDLE	TWO-SIDED PRINT DATA SPLITTING	MEDIA VALIDATION	DETECTING IMPROVED QUALITY COUNTERFEIT MEDIA	BANKNOTE VALIDATION	CARD READER DEVICE	VALIDATION TEMPLATE FOR VALUABLE MEDIA OF MULTIPLE CLASSES	CARD READER	Title

RCD	RCD	MX	P	Ъ	Ή	P	P	JP	JP	JР	JP	Country Code
European Union	European Union	Mexico	Japan	Japan	Japan	Japan	Japan	Japan	Japan	Japan	Japan	Country Name
001086854-0001	001041545-0001	MX/A/2017/009345	2021-060329	2013-128271	2012-097432	2011-270766	2011-270765	2011-257732	2011-257720	2011-241490	2011-183937	Application Number
1086854-000	001041545-0001	377231	7275186	6246506	5882123	5875178	5820713	5832022	5808232	5808223	5871303	Patent Number
AUTOMATIC TELLER MACHINES, PAYMENT TERMINALS	PAYMENT TERMINALS, AUTOMATIC TELLER MACHINES	STACKING AND DISPENSING MODULE	SYSTEM AND METHOD FOR TOUCHLESS PIN ENTRY	CASSETTE REPLENISHMENT	FRAUD PREVENTION	MEDIA PRESENTER	MEDIA PRESENTER	MEDIA CASSETTE	MEDIA CASSETTE	IMPROVED PICK UNIT	MEDIA PRESENTER	Title

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RCD	RCD	RCD	RCD	RCD	RCD	RCD	RCD	RCD	RCD	RCD	RCD	Country Code
European Union	European Union	European Union	European Union	European Union	European Union	European Union	European Union	European Union	European Union	European Union	European Union	Country Name
002188375-0002	002188375-0001	002149468-0001	001955642	001955642	001955642	001955642	001955642	001955642	001886706-0002	001886706-0001	001674409	Application Number
002188375-0002	002188375-0001	002149468-0001	001955642-0003	001955642-0002	001955642-0001	001955642-003	001955642-002	001955642-001	001886706-0002	001886706-0001	001674409-0001	Patent Number
AUTOMATIC TELLER MACHINES [ON-LINE BANKING TERMINALS]	AUTOMATIC TELLER MACHINES [ON-LINE BANKING TERMINALS]	AUTOMATIC TELLER MACHINES	SELF-SERVICE TERMINAL	AUTOMATIC TELLER MACHINES	AUTOMATIC TELLER MACHINES	AUTOMATIC TELLER MACHINES	Tide					

CONFI	RCD	RCD	RCD	RCD	RCD	RCD	RCD	RCD	RCD	RCD	RCD	Country Code
CONFIDENTIAL	European Union	European Union	European Union	European Union	European Union	European Union	European Union	European Union	European Union	European Union	European Union	ry Country Name
	005110012	005110012	005110012	005110012	003833672	003320589	003320167	003320159	003320100	003319466	002992107	Application Number
113	005110012-0004	005110012-0003	005110012-0002	005110012-0001	003833672-0001	003320589-0001	003320167-0001	003320159-0001	003320100-0001	003319466-0001	002992107-0001	Patent Number
3	ATM	ATM	ATM	ATM	DESIGN OF MULTIFUNCTIONAL SELF-SERVICE TERMINALS (PART OF -), PAYMENT TERMINALS (PART OF -), AUTOMATIC TELLER MACHINES [ON-LINE BANKING TERMINALS] (PART OF -)	DESIGN OF MULTIFUNCTIONAL SELF-SERVICE TERMINALS (PART OF -), PAYMENT TERMINALS (PART OF -), AUTOMATIC TELLER MACHINES [ON-LINE BANKING TERMINALS] (PART OF -)	MULTIFUNCTIONAL SELF-SERVICE TERMINALS, PAYMENT TERMINALS, AUTOMATIC TELLER MACHINES [ON-LINE BANKING TERMINALS]	MULTIFUNCTIONAL SELF-SERVICE TERMINALS, PAYMENT TERMINALS, AUTOMATIC TELLER MACHINES [ON-LINE BANKING TERMINALS]	MULTIFUNCTIONAL SELF-SERVICE TERMINALS, PAYMENT TERMINALS, AUTOMATIC TELLER MACHINES [ON-LINE BANKING TERMINALS]	MULTIFUNCTIONAL SELF-SERVICE TERMINALS	MULTIFUNCTIONAL SELF-SERVICE TERMINALS	Tide

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PAYMENT TERMINALS	1058531-0010	1058531-0010	European Union	RCD
PAYMENT TERMINALS	1058531-0009	1058531-0009	European Union	RCD
PAYMENT TERMINALS	1058531-0008	1058531-0008	European Union	RCD
PAYMENT TERMINALS	1058531-0007	1058531-0007	European Union	RCD
PAYMENT TERMINALS	1058531-0006	1058531-0006	European Union	RCD
PAYMENT TERMINALS	1058531-0005	1058531-0005	European Union	RCD
PAYMENT TERMINALS	1058531-0004	1058531-0004	European Union	RCD
PAYMENT TERMINALS	1058531-0003	1058531-0003	European Union	RCD
PAYMENT TERMINALS	1058531-0002	1058531-0002	European Union	RCD
PAYMENT TERMINALS	1058531-0001	1058531-0001	European Union	RCD
SELF SERVICE TERMINAL	007938162-0002	007938162-0002	European Union	RCD
SELF SERVICE TERMINAL	007938162-0001	007938162-0001	European Union	RCD
Tide	Patent Number	Application Number	Country Name	Country Code

RCD	Code											
European Union	Country Name											
1058531-0022	1058531-0021	1058531-0020	1058531-0019	1058531-0018	1058531-0017	1058531-0016	1058531-0015	1058531-0014	1058531-0013	1058531-0012	1058531-0011	Application Number
1058531-0022	1058531-0021	1058531-0020	1058531-0019	1058531-0018	1058531-0017	1058531-0016	1058531-0015	1058531-0014	1058531-0013	1058531-0012	1058531-0011	Patent Number
PAYMENT TERMINALS	Title											

Worldwide Pending Patent Applications:

Country Code	Country Name	Application Number	Title
US	United States	11/315,900	SELF-SERVICE TERMINAL TEN
US	United States	14/288,425	TEXTURED FILM OVERLAY FOR TOUCH-SENSITIVE DISPLAYS
US	United States	14/699,001	SELF-SERVICE TERMINAL SECURE BOOT DEVICE ORDER MODIFICATION
US	United States	14/699,492	BIOMETRIC AUTHENTICATION OF PRE-STAGED SELF-SERVICE TERMINAL TRANSACTIONS
US	United States	15/168,722	CURRENCY ACQUISITION DEVICES, SYSTEMS, AND METHODS
US	United States	15/365,559	IDENTITY VERIFICATION SYSTEMS AND METHODS
US	United States	15/444,240	COMBINED SHUTTER AND USER INTERFACE PIN ENTRY
US	United States	15/444,260	BLOCKCHAIN CONSUMER LEDGER
US	United States	15/719,158	COOPERATIVE FRAUD-DETECTION PROCESSING
US	United States	15/884,485	CRYPTOCURRENCY TERMINAL AND TRANSACTION PROCESSING
Sn	United States	15/907,061	TERMINAL TELEMETRY MONITORING AND ALERTING
US	United States	16/353,380	SECURE WIRELESS AUDIO AND SPEECH AT A TRANSACTION TERMINAL

PATENT REEL: 068617 FRAME: 0142

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US	US	US	US	US	US	US	Sn	Sn	US	US	US	Country Code
United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
17/123,516	17/123,341	17/070,161	17/036,510	17/032,039	17/030,835	17/004,151	16/672,583	16/668,925	16/667,372	16/666,674	16/518,709	Application Number
DISSUASION CASSETTE, SYSTEM, AND APPARATUS AGAINST CURRENCY THEFT FROM MEDIA DEPOSITORY	AGNOSTIC DATA COLLECTION PLATFORM	SYSTEM AND METHOD FOR DETECTING A SMART CARD	CRYPTOGRAPHIC LOCK-AND-KEY GENERATION, DISTRIBUTION, AND VALIDATION	A SYSTEM AND APPARATUSES FOR COMMUNICATION PORT CORD RETENTION	SYSTEM AND METHOD FOR TOUCHLESS PIN ENTRY	SINGLE TAPE ESCROW MODULE	ADAPTIVE PRESSURE MEDIA FEEDING	INTER-ENTITY NON-MONETARY TRANSACTIONS	AUTHENTICATION NETWORK FOR TRANSACTION DATA	METHODS AND A SYSTEM FOR OPPORTUNISTIC DELIVERY	TERMINAL BREACH PROTECTION METHODS AND DEVICES	Title

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United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	y Country Name
17/404,104	17/362,269	17/361,768	17/341,771	17/341,728	17/243,874	17/243,843	17/218,349	17/184,707	17/184,703	17/184,029	17/166,029	Application Number
BLOCKCHAIN-BASED SUPPLY CHAIN AND INVENTORY MANAGEMENT SYSTEM AND METHOD	ANTICIPATORY AND REMOTE-CONTROLLED MEDIA MANAGEMENT	CARD READER VERIFICATION	TRANSACTION FLOW	SECURE ACCESS-BASED RESOURCE DELEGATION	SECURE REMOTE SUPPORT AUTHORIZATION	AUTOMATED IMAGE METADATA PROCESSING	SAFE DOOR APPARTUS AND SYSTEM	REMOTE CONTROL ACCESS OF TERMINAL INTERFACE	SECURE WIRELESS DISCOVERY AND PAIRING	WEB MERCHANT BALANCE CASH IN VIA ATM DEPOSITS	CHANNEL INTEGRATION	Title

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United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
17/951,738	17/900,438	17/899,872	17/899,845	17/890,616	17/877,031	17/876,841	17/876,796	17/869,072	17/866,789	17/854,875	17/854,726	Application Number
DISPLAY WITH INTEGRATED CAMERAS	SYSTEM AND METHOD FOR DETECTING A FOREIGN OBJECT	SKIMMING AND MAGNETIC READ PREVENTION	DISPLAYS FOR SELF-SERVICE TERMINALS	CORRUGATING ROLLERS APPARATUS AND METHOD FOR A MEDIA STORAGE BIN IN A SELF-SERVICE TERMINAL	RECYCLABLE SAFE	INTERNAL CARD READER SKIMMER DISRUPTER	SKIMMER DETECTION AND MITIGATION	DECENTRALIZED PEER-TO-PEER TRANSACTION SERVICE	METHOD FOR DETECTING MOUNTING OF AN OBJECT AT A TERMINAL DEVICE	SYNTHETIC BANKNOTE DATA GENERATION USING A GENERATIVE ADVERSARIAL NETWORK WITH SPATIALLY COMPOSITED MULTISPECTRAL DATA	CRYPTOCURRENCY COLD WALLET STORAGE DEVICE DISPENSER	Title

US	US	US	US	US	US	US	US	US	US	US	Sn	Country Code
United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
18/086,933	18/082,095	18/082,059	18/071,841	17/975,952	17/966,399	17/966,381	17/957,258	17/956,041	17/956,016	17/955,809	17/952,550	Application Number
DEVICE POWER CONTROLLER	SYSTEM AND METHOD FOR PROVIDING BANKING SERVICES TO CRYPTOCURRENCY ACCOUNTS	SYSTEM AND METHOD FOR PROVIDING BANKING SERVICES TO CRYPTOCURRENCY ACCOUNTS	AUTO INSTALLMENTS VIA SMART CONTRACTS ON BLOCKCHAIN	DIGITAL WALLET INTEGRATION FOR ONLINE SERVICES	DEVICE, SYSTEM, AND METHOD FOR CARD SKIMMING PROTECTION	SECURE SAFE APPARATUS AND SYSTEM	CRYPTO-BASED TRANSACTION FRAUD PROTECTION	OBJECT DETECTION AND ANCHOR POSITION AND ORIENTATION RESOLUTION FOR AUGMENTED REALITY (AR) APPLICATIONS	DEVICE ENCLOSURE TEMPERATURE CONTROL	MEDIA APERTURE PROTECTION FOR MEDIA HANDLING DEVICES	PRODUCT TRACEABILITY PROCESSING	Title

CURRENCY TRAPPING DETECTION	18/125,452	United States	US
METHODS AND SYSTEM FOR SECURELY CAPTURING AND PROVIDING TRANSACTION INFORMATION	18/125,384	United States	Sn
MEDIA SANITIZING CASSETTE AND METHOD OF OPERATION	18/121,914	United States	US
SHORT TRAVEL PUSHER PLATE STACKING BIN	18/121,870	United States	US
ESCROW CLUTCH PROTECTION	18/121,414	United States	US
CRYPTO MANAGEMENT	18/115,323	United States	US
SECURED AND CONTROLLED ACCESS TO MEDIA CASSETTES	18/115,162	United States	US
CONFIGURABLE DISPLAY HOLDING APPARATUS AND SYSTEM	18/103,650	United States	Sn
MOTIONLESS CARD MAGNETIC STRIP READER	18/103,637	United States	US
REPLAY ATTACK DETECTION	18/103,623	United States	US
BLOCKCHAIN-BASED FIAT CURRENCY CONVERSIONS AND TRANSFERS	18/102,908	United States	US
HARD DRIVE ANTI-THEFT PROTECTION	18/087,249	United States	US
Title	Application Number	Country Name	Country Code

US	US	US	Sn	US	US	US	SN	SN	US	Sn	US	Country Code
United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	United States	Country Name
29/840,330	18/228,270	18/216,759	18/216,732	18/216,704	18/194,107	18/140,696	18/129,462	18/129,190	18/129,187	18/128,426	18/125,479	Application Number
TERMINAL	PLATE STABILITY FOR A DEPOSIT AND DISPENSE MODULE	ENVIRONMENTAL MONITORING	VEHICLE	POWER SAVING	CARD READER FOREIGN OBJECT DETECTION	MEDIA HANDLING DEVICE MODULE ALIGNMENT	LOCK WITH TAMPER-EVIDENT SECURITY	TERMINAL SELF-CONFIGURATION OF MEDIA CASSETTES	MEDIA CASSETTE MEDIA DESTRUCTION	PRESSURIZED SECURITY ENCLOSURES FOR MEDIA TERMINALS	APPARATUS, SYSTEM, AND METHOD FOR BULK CURRENCY NOTE DEPOSITS	Title

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ONFIDE	₽ Q	CN	BR	BR	BR	BR	BR	BR	BR	BR	BR	BR	Country Code
CONFIDENTIAL	People's Republic of China	People's Republic of China	Brazil	Brazil	Brazil	Brazil	Brazil	Brazil	Brazil	Brazil	Brazil	Brazil	Country Name
	202110317637.3	201810424785.3	PI11035439	BR1020190204036	BR 20 2013 030643-1	102017016828	102016030706	102015030494	102015023195	102014020746	102012010682	10 2015 005669-9	Application Number
125	SYSTEM AND METHOD FOR TOUCHLESS PIN ENTRY	SAFE PROTECTION APPARATUSES AND METHODS	S2 MULTI COMPARTMENT BIN	ENTRANCE PROTECTION AGAINST EXPLOSION ATTACKS FOR ATMS IN THE FIELD	MECHANISM OF ARTICULATION OF A FRONT PANEL OF AN ELECTRONIC SELF- SERVICE TERMINAL	METHOD AND SYSTEM FOR ASSIGNING A DEGREE OF RELIABILITY TO AN INDIVIDUAL IMAGE CAPTURED DURING THE USE OF SELF-SERVICE EQUIPMENT AND STORAGE BY MEANS OF A COMPUTER	SAFETY DEVICE FOR SELF-SERVICE TERMINALS	SELF-SERVICE TERMINAL AND ANTI-VANDALISM PLATE FOR SELF-SERVICE TERMINAL	PROTECTION METHOD	SELF-SERVICE TERMINAL	LOCKABLE COMPARTMENT	BANKNOTE RECYCLER AND SELF-SERVICE TERMINAL	Title

CONFIDENTIAL	CN	CN	CN	CN	CN	S	CN	CN	CN	CN	CN	Country Code
TIAL	People's Republic of China	People's Republic of China	People's Republic of China	People's Republic of China	People's Republic of China	People's Republic of China	People's Republic of China	People's Republic of China	People's Republic of China	People's Republic of China	People's Republic of China	Country Name
	202310245789.6	202310245786.2	202310245783.9	202310245781 X	202310245775.4	202310204637.1	202211579454.X	202211567200.6	202211566205.7	202211557356.6	202210523264.X	Application Number
126	SKIMMING AND MAGNETIC READ PREVENTION	SYSTEM AND METHOD FOR DETECTING A FOREIGN OBJECT	CORRUGATING ROLLERS APPARATUS AND METHOD FOR A MEDIA STORAGE BIN IN A SELF-SERVICE TERMINAL	RECYCLABLE SAFE	INTERNAL CARD READER SKIMMER DISRUPTER	SKIMMER DETECTION AND MITIGATION	DETECTING MOUNTING OF AN OBJECT AT A TERMINAL DEVICE	MEDIA ITEM TRANSPORT	CURRENCY TRAPPING DETECTION	COMPACT REJECT BIN	COMBINED SHUTTER AND USER INTERFACE PIN ENTRY	Title

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NTIAL	Convention	European Patent	European Patent Convention	European Patent Convention	European Patent Convention	European Patent Convention	European Patent Convention	European Patent Convention	European Patent Convention	European Patent Convention	European Patent Convention	European Patent Convention	Country Name
		21165423.1	21165422.3	21165381.1	21165374.6	21165372.0	21165360.5	20209401.7	19220184.6	18248018.6	18178289.7	18172293.5	Application Number
128		SLIM PROFILE SAFE	TOUCHLESS TRANSACTION ON A TRANSACTION TERMINAL	FRAUD DETECTION SYSTEM AND METHOD	SYSTEM AND METHOD FOR TOUCHLESS PIN ENTRY	STERILIZING MEDIA CASSETTE	AGGREGATED SESSION MANAGEMENT FOR TERMINAL DEVICES	ASSET TRACKING AND NOTIFICATION PROCESSING	A MEDIA ROTATION MECHANISM	RECYCLING MULTIPLE NOTES FROM A CASSETTE	CARD SHIMMER DETECTION	MEDIA SECURITY VALIDATION	Title

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NIIAL	Convention	European Patent	European Patent Convention	Patent Convention	European	Patent Convention	European	Convention	European Patent	Convention	European Patent	Convention	European Patent	Convention	European Patent	Convention	European Patent	Convention	European Patent	Convention	Patent	j	Country Name
		22216229.9	22216223.2		22216221.6		22216215.8		22216213.3		22216203.4		22216196.0		22202414.3		22202411.9	2 -	22202410.1		22202404.4		Application Number
129		DEVICE ENCLOSURE TEMPERATURE CONTROL	MEDIA APERTURE PROTECTION FOR MEDIA HANDLING DEVICES		SKIMMER DETECTION AND MITIGATION		SKIMMING AND MAGNETIC READ PREVENTION		OBJECT DETECTION AND ANCHOR POSITION AND ORIENTATION RESOLUTION FOR AUGMENTED REALITY (AR) APPLICATIONS		INTERNAL SKIMMER DISRUPTION ENABLER		SYSTEM AND METHOD FOR DETECTING A FOREIGN OBJECT		DETECTING MOUNTING OF AN OBJECT AT A TERMINAL DEVICE		MEDIA ITEM TRANSPORT		COMPACT REJECT BIN		CURKENCY TRAPPING DETECTION		Title

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201844010302	201844010302 201844040085	201844010302 201844040085 202144013365	201844010302 201844040085 202144013365 4002/CHE/2012	201844010302 201844040085 202144013365 4002/CHE/2012	201844010302 201844040085 202144013365 202144013365 4002/CHE/2012 4003/CHE/2012
VIRTUAL REALITY MAINTENANCE AND REPAIR		VIRTUAL REALITY MAINTENANCE AND REPAIR BANKNOTE FOREIGN OBJECT DETECTION USING PRESSURE SENSING ARRAY SYSTEM AND METHOD FOR TOUCHLESS PIN ENTRY	VIRITUAL REALITY MAINTENANCE AND REPAIR BANKNOTE FOREIGN OBJECT DETECTION USING PRESSURE SENSING ARRAY SYSTEM AND METHOD FOR TOUCHLESS PIN ENTRY DEFECT CATEGORISATION	VIRTUAL REALITY MAINTENANCE AND REPAIR BANKNOTE FOREIGN OBJECT DETECTION USING PRESSURE SENSING ARRAY SYSTEM AND METHOD FOR TOUCHLESS PIN ENTRY DEFECT CATEGORISATION STAIN DETECTION	VIRTUAL REALITY MAINTENANCE AND REPAIR BANKNOTE FOREIGN OBJECT DETECTION USING PRESSURE SENSING ARRAY SYSTEM AND METHOD FOR TOUCHLESS PIN ENTRY DEFECT CATEGORISATION STAIN DETECTION CHANNEL INTEGRATION

æ	Œ	Ħ	Country Code
Japan	Japan	Japan	Country Country Code Name
2023-008575	2022-211157	2022-211152	Application Number Title
MEDIA ITEM TRANSPORT	CURRENCY TRAPPING DETECTION	COMPACT REJECT BIN	Title

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Registered Trademarks and Applications Therefor:

PASSAMAL OTE Brazil	PASSAMAL OTE Brazil	ADATTIS Brazil MOBICASH	ADATTIS Brazil MOBICASH	ADATTIS Brazil MOBICASH	ADATTIS Brazil MOBICASH	ADATTIS Brazil	ADATTIS Brazil	ADATTIS Brazil	ADATTIS Brazil	NETWORK Australia MEDICO (LOGO)	1 rademark Country
829034048	827874006	840532377	840532369	840532350	840532342	829141391	829048332	829048324	829048316	alia 1309174	
11.7		78									Application Fill
02-MAR-2007 82	24-OCT-2005	03-JUN-2013 84	03-JUN-2013 84	03-JUN-2013 84	03-JUN-2013 84	18-MAY-2007 82	21-MAR-2007 82	21-MAR-2007 82	21-MAR-2007 82	13-JUL-2009 12	rung pare No.
829034048		840532377	840532369	840532350	840532342	829141391	829048332	829048324	829048316	1309174	No.
06-OCT-2009		27-JAN-2017	27-JAN-2017	26-JAN-2017	26-JAN-2017	13-OCT-2009	23-FEB-2010	12-SEP-2008	23-FEB-2010	13-JUL-2009	Date
Registered	Abandoned	Registered	Lapsed	Smins							
Origami Brasil Tecnologia E Servicios Em Automacao Ltda	NCR Australia Party Ltd.	Assignee									

PATENT

REEL: 068617 FRAME: 0157

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NCR Corporation	Lapsed	30-MAY-2000	815236	02-FEB-1998	30398	Italy	PRIME
NCR France	Lapsed	29-APR-1989	1,530,793	29-APR-1988	923,836	France	SILICARD
NCR Corporation	Lapsed	06-APR-1988	1490446	06-APR-1988	INPI918584	France	PRIME
NCR France	Lapsed	29-APR-1989	1,530,791	29-APR-1988	923,834	France	CASHNET
Iatm Global.Net Corporation	Lapsed	27-SEP-2002	1938414	31-OCT-2000	1938414	European Union (Community)	RAAP
Iatm Global.Net Corporation	Lapsed	19-DEC-2002	1662469	09-MAY-2000	1662469	European Union (Community)	IATMNETWORK
NCR Corporation	Registered	22-JUL-2015	013860499	20-MAR-2015	013860499	European Union (Community)	KALPANA
NCR Corporation	Registered	16-NOV-2005	003907896	28-JUN-2004	003907896	European Union (Community)	FIGURATIVE MARK (PADLOCK - SMALL)
NCR Corporation	Registered	15-NOV-2005	003907912	28-JUN-2004	003907912	European Union (Community)	FIGURATIVE MARK (PADLOCK - SMALL)
Origami Brasil Tecnologia E Servicios Em Automacao Ltda	Registered	16-MAR-2010	008563025	21-SEP-2009	008563025	European Union (Community)	ADATTIS
Origami Brasil Tecnologia E Servicios Em Automacao Ltda	Registered	18-MAR-2015	908924810	29-JAN-2015	908924810	Brazil	WEBTELLER
Origami Brasil Tecnologia E Servicios Em Automacao Ltda	Registered	18-AUG-2009	828728305	12-SEP-2006	828728305	Brazil	SECURITY WAY
Assignee	Status	Registration Date	Registration No.	Filing Date	Application No.	Country	Trademark

RECORDED: 08/19/2024