PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT7197785

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	RELEASE OF SECURITY INTEREST

CONVEYING PARTY DATA

Name	Execution Date
JPMORGAN CHASE BANK, N.A., AS ADMINISTRATIVE AGENT	02/18/2022

RECEIVING PARTY DATA

Name:	ATMEL CORPORATION
Street Address:	2355 W CHANDLER BLVD
City:	CHANDLER
State/Country:	ARIZONA
Postal Code:	85224

PROPERTY NUMBERS Total: 1649

Property Type	Number
Patent Number:	8707037
Patent Number:	8183834
Patent Number:	8059442
Patent Number:	7791921
Patent Number:	8209509
Patent Number:	8031547
Patent Number:	7813201
Patent Number:	8719588
Patent Number:	8174099
Patent Number:	8372209
Patent Number:	8042566
Patent Number:	8022516
Patent Number:	8054156
Patent Number:	8395461
Patent Number:	8054144
Patent Number:	8099270
Patent Number:	7773019
Patent Number:	8443423
Patent Number:	8051467
Patent Number:	8085604

Property Type	Number
Patent Number:	9191211
Patent Number:	8179708
Patent Number:	7994866
Patent Number:	9182802
Patent Number:	8677145
Patent Number:	8198920
Patent Number:	7843232
Patent Number:	8054694
Patent Number:	8745410
Patent Number:	8255722
Patent Number:	8159830
Patent Number:	8169845
Patent Number:	7994869
Patent Number:	9495042
Patent Number:	8004924
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Patent Number:	8576182
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Patent Number:	8186601
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Patent Number:	8490013
Patent Number:	8621942
Patent Number:	8552994
Patent Number:	8588021
Patent Number:	8270242
Patent Number:	9372579
Patent Number:	8379012
Patent Number:	8970536
Patent Number:	8564552
Patent Number:	8736568
Patent Number:	8154529
Patent Number:	8451237
Patent Number:	8797290
Patent Number:	8587359
Patent Number:	7999714
Patent Number:	7944384

Property Type	Number
Patent Number:	8599161
Patent Number:	9551904
Patent Number:	8599150
Patent Number:	8643174
Patent Number:	8241925
Patent Number:	8797281
Patent Number:	8269524
Patent Number:	8783949
Patent Number:	8766929
Patent Number:	9489072
Patent Number:	9081427
Patent Number:	8723834
Patent Number:	8402180
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Patent Number:	8487424
Patent Number:	8455304
Patent Number:	8618794
Patent Number:	8860686
Patent Number:	8797280
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Patent Number:	9252768
Patent Number:	8400209
Patent Number:	9223445
Patent Number:	9257969
Patent Number:	8279015
Patent Number:	9465491
Patent Number:	8564314
Patent Number:	8189732
Patent Number:	8344817
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Patent Number:	8946574
Patent Number:	8797285
Patent Number:	8880913

Property Type	Number
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Patent Number:	9054528
Patent Number:	8843538
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Patent Number:	8947404
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Patent Number:	9218561
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Patent Number:	8624607
Patent Number:	8901868
Patent Number:	9501179
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Patent Number:	8828846

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Patent Number:	8847612
Patent Number:	9287865
Patent Number:	8416117
Patent Number:	8421666
Patent Number:	9310941
Patent Number:	8516167
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Patent Number:	8829883
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Patent Number:	9507447
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Patent Number:	9354760
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Patent Number:	8726037
Patent Number:	9411472
Patent Number:	9342182
Patent Number:	8717325
Patent Number:	9035663
Patent Number:	9317161
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Patent Number:	8947105
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Patent Number:	9262019
Patent Number:	9154257
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Patent Number:	8639851
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Patent Number:	8736551
Patent Number:	9360928
Patent Number:	9213397
Patent Number:	9513691
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Patent Number:	9298237
Patent Number:	8629796
Patent Number:	9323312
Patent Number:	9213388

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Patent Number:	8847291
Patent Number:	9032116
Patent Number:	8775694
Patent Number:	9423843
Patent Number:	9146887
Patent Number:	8902395
Patent Number:	8726223
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Patent Number:	9081454
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Patent Number:	9318959
Patent Number:	9118467
Patent Number:	9372818
Patent Number:	9557361
Patent Number:	9572206
Patent Number:	9088219
Patent Number:	9306446
Patent Number:	8933640
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Patent Number:	9501078
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Patent Number:	9471524
Patent Number:	9298222
Patent Number:	9436328
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Patent Number:	9280246
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Patent Number:	8051263
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Patent Number:	7651919
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Property Type	Number
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Patent Number:	7855538
Patent Number:	7375503
Patent Number:	8533439
Patent Number:	7729553
Patent Number:	7821122
Patent Number:	7880193
Patent Number:	7626247
Patent Number:	8237266
Patent Number:	8525329
Patent Number:	7342308
Patent Number:	8093640
Patent Number:	7560334
Patent Number:	7688001
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Patent Number:	7652522
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Patent Number:	7743186
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Property Type	Number
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Patent Number:	7592872
Patent Number:	8261072
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Patent Number:	6138918
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Property Type	Number
Patent Number:	6356987
Patent Number:	6272657
Patent Number:	6218729
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Property Type	Number
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Property Type	Number
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Property Type	Number
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Patent Number:	7242242
Patent Number:	6873551
Patent Number:	6734701

Property Type	Number
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Patent Number:	7739539
Patent Number:	7864583
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Patent Number:	7522002
Patent Number:	7579902
Patent Number:	7769943
Patent Number:	7525856

Property Type	Number
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Application Number:	11942239

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NAME OF SUBMITTER:	QUI LU FLOOD
SIGNATURE:	/Qui Lu Flood/
DATE SIGNED:	02/28/2022

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RELEASE OF SECURITY INTEREST IN PATENT RIGHTS

THIS RELEASE OF SECURITY INTEREST IN PATENT RIGHTS ("Release") is dated as of February 18, 2022 by JPMorgan Chase Bank, N.A, as Administrative Agent for the Secured Parties (in such capacity, the "Administrative Agent"), in favor of ATMEL CORPORATION (the "Grantor").

WHEREAS, Administrative Agent and Grantor were parties to that certain Pledge and Security Agreement, dated as of February 8, 2017 (as may be amended, restated, supplemented or otherwise modified from time to time, the "Security Agreement") and that certain Grant of Security Interest in Patent Rights, dated as of February 8, 2017 (the "Patent Security Agreement"), in each case entered into in connection with that certain Amended and Restated Credit Agreement, dated as of June 27, 2013, as amended and restated as of February 4, 2015 (as may be amended, restated, supplemented or otherwise modified from time to time, the "Credit Agreement") among Microchip Technology Incorporated, the lenders from time to time party thereto and Administrative Agent;

WHEREAS, pursuant to the Patent Security Agreement, the Grantor granted to the Administrative Agent a security interest in (1) all of such Grantor's right, title and interest in and to the Patents then owned or from time to time thereafter owned or acquired by the Grantor, together with (2) all proceeds and products of the Patents, and (3) all causes of action arising prior to or after the date thereof for infringement of the Patents or unfair competition regarding the same (including, without limitation, those items listed on Schedule A attached hereto) (the "Patent Collateral");

WHEREAS, the Patent Security Agreement was recorded with the United States Patent and Trademark Office on February 10, 2017 at Reel 041715 and Frame 0747; and

WHEREAS, the Grantors have requested that the Administrative Agent execute and deliver this Release in order to evidence the release of its security interest in the Patent Collateral for recordation with the United States Patent and Trademark Office.

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Administrative Agent hereby states as follows:

Section 1. Definitions. Unless otherwise defined herein, terms used herein shall have the meaning given to them in the Credit Agreement, Security Agreement or Patent Security Agreement, as applicable.

Section 2. Release of Security Interest. Administrative Agent, without recourse, representation or warranty of any kind, hereby releases, discharges, terminates and cancels all of its security interest in and to the Patent Collateral arising under the Security Agreement or the Patent Security Agreement, and any right, title or interest of Administrative Agent in such Patent Collateral shall hereby cease and become void. Administrative Agent hereby authorizes and requests that the Commissioner for Patents of the United States Patent and Trademark Office record this Release.

[Signatures on following page]

IN WITNESS WHEREOF, the undersigned has executed this Release by its duly authorized officer as of the date first written above.

JPMORGAN CHASE BANK, N.A,
as Administrative Agent

By: _____

Name: _____Timothy D. Lee_____
Executive Director

Title: _____

(i) U.S. registered Patents:

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	8707037	US	Apr 22, 2014	Cryptographic Authentication Apparatus, Systems and Methods'
Atmel Corporation	8183834	US	May 22, 2012	Current to Frequency Conversion, Apparatus and Methods
Atmel Corporation	8059442	US	Nov 15, 2011	ROM Array With Shared Bit-Lines
Atmel Corporation	7791921	US	Sep 7, 2010	ROM Array with Shared Bit-Lines
Atmel Corporation	8209509	US	Jun 26, 2012	Accessing Memory in a System with Memory Protection
Atmel Corporation	8031547	US	Oct 4, 2011	Differential Sense Amplifier
Atmel Corporation	7813201	US	Oct 12, 2010	Differential Sense Amplifier
Atmel Corporation	8719588	US	May 6, 2014	Memory Address Obfuscation
Atmel Corporation	8174099	US	May 8, 2012	Leadless Package with Internally Extended Package Leads
Atmel Corporation	8372209	US	Feb 12, 2013	Ex-Situ Component Recovery
Atmel Corporation	8042566	US	Oct 25, 2011	Ex-Situ Component Recovery
Atmel Corporation	8022516	US	Sep 20, 2011	Metal Leadframe Package with Secure Feature
Atmel Corporation	8054156	US	Nov 8, 2011	Low Variation Resistor
Atmel Corporation	8395461	US	Mar 12, 2013	Mode Switching RC Network
Atmel Corporation	8054144	US	Nov 8, 2011	Mode Switching RC Network
Atmel Corporation	8099270	US	Jan 17, 2012	Simulation Model for Transistors
Atmel Corporation	7773019	US	Aug 10, 2010	Digital-to-Analogue Converter
Atmel Corporation	8443423	US	May 14, 2013	Secure Information Processing
Atmel Corporation	8051467	US	Nov 1, 2011	Secure Information Processing
Atmel Corporation	8085604	US	Dec 27, 2011	Snap-Back Tolerant Integrated Circuits

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	9191211	US	Nov 17, 2015	A Data Security System
Atmel Corporation	8179708	US	May 15, 2012	Anti-Cross-Talk Circuitry for ROM Arrays
Atmel Corporation	7994866	US	Aug 9, 2011	AUTO TRIMMING OSCILLATOR
Atmel Corporation	9182802	US	Nov 10, 2015	Single Pin Communications Mechanism
Atmel Corporation	8677145	US	Mar 18, 2014	Single Pin Communications Mechanism
Atmel Corporation	8198920	US	Jun 12, 2012	Low Current Comparator with Programmable Hysteresis
Atmel Corporation	7843232	US	Nov 30, 2010	Dual Mode, Single Ended to Fully Differential Converter Structure
Atmel Corporation	8054694	US	Nov 8, 2011	Voltage Generator for Memory Array
Atmel Corporation	8745410	US	Jun 3, 2014	Method and Apparatus to Scramble Data Stored in Memories Accessed by Microprocessors
Atmel Corporation	8255722	US	Aug 28, 2012	Microntroller with Clock Generator for Supplying Activated Clock Signal to Requesting Module to Conserve Power
Atmel Corporation	8159830	US	Apr 17, 2012	Surface Mounting Chip Carrier Module
Atmel Corporation	8169845	US	May 1, 2012	Apparatus and Methods for Sense Amplifiers
Atmel Corporation	7994869	US	Aug 9, 2011	Current-Controlled Hysteretic Oscillator
Atmel Corporation	9495042	US	Nov 15, 2016	Two-Dimensional Position Sensor
Atmel Corporation	8004924	US	Aug 23, 2011	Voltage Regulator for Memory
Atmel Corporation	8552315	US	Oct 8, 2013	Two-Dimensional Position Sensor

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	8576182	US	Nov 5, 2013	Methods and Apparatuses to Test the Functionality of Capacitive Sensors
Atmel Corporation	8223056	US	Jul 17, 2012	Cyclic Digital to Analog Converter
Atmel Corporation	8531022	US	Sep 10, 2013	Routable Array Metal Integrated Circuit Package
Atmel Corporation	8186601	US	May 29, 2012	Non-Volatile Memory Charge Pump for Radio Frequency Identification (RFID) System
Atmel Corporation	8190956	US	May 29, 2012	Quadrature Decoder Filtering Circuitry for Motor Control
Atmel Corporation	8134870	US	Mar 13, 2012	High-Density Non-Volatile Read-Only Memory Arrays and Related Methods
Atmel Corporation	8490013	US	Jul 16, 2013	Method and Apparatus for Single Touch Zoom Using Spiral Rotation
Atmel Corporation	8621942	US	Jan 7, 2014	Force Sensor with Compressible Electrode
Atmel Corporation	8552994	US	Oct 8, 2013	Method and Apparatus to Measure Self-Capacitance Using a Single Pin
Atmel Corporation	8588021	US	Nov 19, 2013	Sense Amplifier Apparatus and Methods
Atmel Corporation	8270242	US	Sep 18, 2012	Sense Amplifier Apparatus and Methods
Atmel Corporation	9372579	US	Jun 21, 2016	Touchscreen Electrode Arrangement
Atmel Corporation	8379012	US	Feb 19, 2013	Selector Switch for Direct Connection of Switched Regulator to Voltage Inputs
Atmel Corporation	8970536	US	Mar 3, 2015	Touchscreen Electrode Arrangement with Varied Proportionate Density
Atmel Corporation	8564552	US	Oct 22, 2013	Touchscreen Electrode Arrangement with Varied Proportionate Density

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	8736568	US	May 27, 2014	Two-Dimensional Touch Sensors
Atmel Corporation	8154529	US	Apr 10, 2012	Two-Dimensional Touch Sensors
Atmel Corporation	8451237	US	May 28, 2013	Sensitivity Control as a Function of Touch Shape
Atmel Corporation	8797290	US	Aug 5, 2014	Sense Electrode Spine Interpolation
Atmel Corporation	8587359	US	Nov 19, 2013	Level Shifter with Output Latch
Atmel Corporation	7999714	US	Aug 16, 2011	Controlling Bias Current for an Analog to Digital Converter
Atmel Corporation	7944384	US	May 17, 2011	Device and Method for Scanning Multiple ADC Channels
Atmel Corporation	8599161	US	Dec 3, 2013	Dual-Substrate-Sensor Stack With Electrodes Opposing a Display
Atmel Corporation	9551904	US	Jan 24, 2014	Touchscreen Electrode Configuration
Atmel Corporation	8599150	US	Dec 3, 2013	Touchscreen Electrode Configuration
Atmel Corporation	8643174	US	Feb 4, 2014	Calibration of Temperature Sensitive Circuits with Heater Elements
Atmel Corporation	8241925	US	Aug 14, 2012	Calibration of Temperature Sensitive Circuits with Heater Elements
Atmel Corporation	8797281	US	Aug 5, 2014	Capacitive Touch-Screen Panel with Multiple Sense Units and Related Methods
Atmel Corporation	8269524	US	Sep 18, 2012	General Purpose Input/Output Pin Mapping
Atmel Corporation	8269524	US	Sep 18, 2012	General Purpose Input/Output Pin Mapping
Atmel Corporation	8783949	US	Jul 22, 2014	Self-Calibrating, Wide- Range Temperature Sensor

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	8766929	US	Jul 1, 2014	Panel for Position Sensors
Atmel Corporation	9489072	US	Nov 8, 2016	Noise Reduction in Capacitive Touch Sensors
Atmel Corporation	9081427	US	Jul 14, 2015	Position-Sensing Panel and Method
Atmel Corporation	8723834	US	May 13, 2014	Touch Sensitive Screen Configurations
Atmel Corporation	8402180	US	Mar 19, 2013	Autonomous Multi-Packet Transfer for Universal Serial Bus
Atmel Corporation	8723818	US	May 13, 2014	Touch Screen Poly Layer Electrode Distribution
Atmel Corporation	8487424	US	Jul 16, 2013	Routable Array Metal Integrated Circuit Package Fabricated Using Partial Etching Process
Atmel Corporation	8455304	US	Jun 4, 2013	Routable Array Metal Integrated Circuit Package Fabricated Using Partial Etching Process
Atmel Corporation	8618794	US	Dec 31, 2013	Detecting Inductive Objects Using Inputs of Integrated Circuit Device
Atmel Corporation	8860686	US	Oct 14, 2014	Mutli-Chip Touch Screens
Atmel Corporation	8797280	US	Aug 5, 2014	Systems and Methods for Improved Touch Screen Response
Atmel Corporation	8125366	US	Feb 28, 2012	Integrating (SLOPE) DAC Architecture
Atmel Corporation	8823656	US	Sep 2, 2014	Touch Tracking Across Multiple Touch Screens
Atmel Corporation	8786572	US	Jul 22, 2014	Touch Position-Sensor Panel and Method
Atmel Corporation	8130580	US	Mar 6, 2012	Low Power Sense Amplifier for Reading Memory
Atmel Corporation	9252768	US	Feb 2, 2016	Position-Sensing Panel
Atmel Corporation	8400209	US	Mar 19, 2013	Proximity Detection

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	9223445	US	Dec 29, 2015	Position-Sensing and Force Detection Panel
Atmel Corporation	9257969	US	Feb 9, 2016	Frequency Locked Oscillator
Atmel Corporation	8279015	US	Oct 2, 2012	Frequency Locking Oscillator
Atmel Corporation	9465491	US	Oct 11, 2016	Capacitive Touch Sensor for Identifying a Fingerprint
Atmel Corporation	8564314	US	Oct 22, 2013	Capacitive Touch Sensor for Identifying a Fingerprint
Atmel Corporation	8189732	US	May 29, 2012	Non-Volatile Memory Counter
Atmel Corporation	8344817	US	Jan 1, 2013	Compensating DFLL With Error Averaging
Atmel Corporation	9077344	US	Jul 7, 2015	Substrate for Electrical Component and Method
Atmel Corporation	8223049	US	Jul 17, 2012	Charge Injection Mechanism for Analog-to- Digital Converters
Atmel Corporation	8493045	US	Jul 23, 2013	Voltage Regulator Configuration
Atmel Corporation	8946574	US	Feb 3, 2015	Two-Layer Sensor Stack
Atmel Corporation	8797285	US	Aug 5, 2014	Panel
Atmel Corporation	8880913	US	Nov 4, 2014	Battery Management and Protection System Using a Controller to Load Safety and Configuration Parameters into Dedicated Registers During Startup and Performing Battery Protection Scans During Startup Independently of a CPU
Atmel Corporation	8943335	US	Jan 27, 2015	Battery Management and Protection System Using a Module in a Sleepwalking Mode to Monitor Operational Characteristics of a Battery
Atmel Corporation	8957639	US	Feb 17, 2015	Event System and Timekeeping for Battery Management and Protection System

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	9054528	US	Jun 9, 2015	Event System and Timekeeping for Battery Management and Protection System
Atmel Corporation	8843538	US	Sep 23, 2014	Measuring Sum of Squared Current
Atmel Corporation	8805906	US	Aug 12, 2014	Variable Architecture for Random Number Generator
Atmel Corporation	8947404	US	Feb 3, 2015	Stylus
Atmel Corporation	9007332	US	Apr 14, 2015	Position Sensing Panel
Atmel Corporation	9218561	US	Dec 22, 2015	Touch Sensor with RFID
Atmel Corporation	8869095	US	Oct 21, 2014	Software Framework and Development Platform for Multi-Sensor Systems
Atmel Corporation	9354728	US	May 31, 2016	Active Stylus with Capacitive Buttons and Sliders
Atmel Corporation	9116558	US	Aug 25, 2015	Executing Gestures with Active Stylus
Atmel Corporation	9164598	US	Oct 20, 2015	Active Stylus with Surface-Modification Materials
Atmel Corporation	9389701	US	Jul 12, 2016	Data Transfer from Active Stylus
Atmel Corporation	9182856	US	Nov 10, 2015	Capacitive Force Sensor
Atmel Corporation	9164603	US	Oct 20, 2015	Executing Gestures with Active Stylus
Atmel Corporation	9160331	US	Oct 28, 2015	Capacitive and Inductive Sensing
Atmel Corporation	8947379	US	Feb 3, 2015	Inductive Charging for Active Stylus
Atmel Corporation	9086745	US	Jul 21, 2015	Dynamic Reconfiguration of Electrodes in an Active Stylus
Atmel Corporation	9557833	US	Jan 31, 2017	Dynamic Adjustment of Received Signal Threshold in an Active Stylus
Atmel Corporation	9310930	US	Apr 12, 2016	Selective Scan of Touch-Sensitive Area for Passive or

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
				Active Touch or Proximity Input
Atmel Corporation	8797287	US	Aug 5, 2014	Selective Scan of Touch-Sensitive Area for Passive or Active Touch or Proximity Input
Atmel Corporation	9280218	US	Mar 8, 2016	Modulating Drive Signal for Communication Between Active Stylus and Touch-Sensor Device
Atmel Corporation	9459709	US	Oct 4, 2016	Scaling Voltage for Data Communication Between Active Stylus and Touch-Sensor Device
Atmel Corporation	9250719	US	Feb 2, 2016	Active stylus with Filter
Atmel Corporation	9164604	US	Oct 20, 2015	Tuning Algorithm for Noise Reduction in an Active Stylus
Atmel Corporation	8581886	US	Nov 12, 2013	Tuning Algorithm for Noise Reduction in an Active Stylus
Atmel Corporation	9189121	US	Nov 17, 2015	Active Stylus with Filter Having a Threshold
Atmel Corporation	8866767	US	Oct 21, 2014	Active Stylus with High Voltage
Atmel Corporation	9280220	US	Mar 8, 2016	Pulse-Or Frame-Based Communication Using Active Stylus
Atmel Corporation	8933899	US	Jan 13, 2015	Pulse- Or Frame-Based Communication Using Active Stylus
Atmel Corporation	8872792	US	Oct 28, 2014	Active Stylus with Energy Harvesting
Atmel Corporation	9167646	US	Oct 20, 2015	Pulse Width Modulation Fault Mode for Illuminating Device Drivers
Atmel Corporation	9229039	US	Jan 5, 2016	Measuring Voltage
Atmel Corporation	8624607	US	Jan 7, 2014	Measuring Voltage
Atmel Corporation	8901868	US	Dec 2, 2014	Starting Sensorless Brushless Direct-Current (BLDC) Motors

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
				Based on Current-Ripple Analysis
Atmel Corporation	9501179	US	Nov 22, 2016	Touch Sensor for Curved or Flexible Surfaces
Atmel Corporation	9256311	US	Feb 9, 2016	Flexible Touch Sensor
Atmel Corporation	8828846	US	Sep 9, 2014	Method of Computing a Width of a Scribe Region Based on a Bonding Structure that Extends into the Scribe Region in a Wafer-Level Chip Scale (WLCSP) Packaging
Atmel Corporation	8963561	US	Feb 24, 2015	Randomizing One or More Micro-Features of a Touch Sensor
Atmel Corporation	8847898	US	Sep 30, 2014	Signal-to-Noise Ratio in Touch Sensors
Atmel Corporation	8847612	US	Sep 30, 2014	Integrated Test System for a Touch Sensor
Atmel Corporation	9287865	US	Mar 15, 2016	Capacitive Touch Sensor Control Unit With Sampling Capacitors For Differential Integration
Atmel Corporation	8416117	US	Apr 9, 2013	Analog to Digital Converter with Dual Integrating Capacitor Systems
Atmel Corporation	8421666	US	Apr 16, 2013	Analog to Digital Converter with Adjustable Conversion Window
Atmel Corporation	9310941	US	Apr 12, 2016	Touch Sensor Input Tool With Offset Between Touch Icon And Input Icon
Atmel Corporation	8516167	US	Aug 20, 2013	Microcontroller System BUS scheduling for Multiport Slave Modules
Atmel Corporation	8558495	US	Oct 15, 2013	Sensorless BLDC Motor Control by Comparing Instanteous & Average BEMF Voltages

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	9059641	US	Jun 16, 2015	Main Supply Zero Crossing Detection for PFC Converter
Atmel Corporation	9024645	US	May 5, 2015	Substantially Edgeless Touch Sensor
Atmel Corporation	8829883	US	Sep 9, 2014	Leakage-Current Compensation For A Voltage Regulator
Atmel Corporation	9207814	US	Dec 8, 2015	Single-Layer Touch Sensor
Atmel Corporation	9507447	US	Nov 29, 2016	Touch Sensor With Inductive Charging
Atmel Corporation	8797049	US	Aug 5, 2014	Low Power Capacitive Touch Detector
Atmel Corporation	9151789	US	Oct 6, 2015	Low Power Capacitive Touch Detector
Atmel Corporation	9354760	US	May 31, 2016	Touch Sensor with Capacitive Nodes Having a Capacitance that is Approximately the Same
Atmel Corporation	8860690	US	Oct 14, 2014	Touch Sensor with Capacitive Nodes Having a Capacitance that is Approximately the Same
Atmel Corporation	8502796	US	Aug 6, 2013	Interpolated Single-Layer Touch Sensor
Atmel Corporation	9231588	US	Jan 5, 2016	Touchscreen Routing Flow for Single Layer Pattern
Atmel Corporation	9083339	US	Jul 14, 2015	Programmable Logic Unit
Atmel Corporation	8415975	US	Apr 9, 2013	Programmable Logic Unit
Atmel Corporation	8736190	US	May 27, 2014	Primary Side PFC Driver with Dimming Capacity
Atmel Corporation	8502474	US	Aug 6, 2013	Primary Side PFC Driver with Dimming Capability
Atmel Corporation	8726037	US	May 13, 2014	Encrypted Memory Access
Atmel Corporation	9411472	US	Aug 9, 2016	Touch Sensor with Adaptive Touch Detection Thresholding

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	9342182	US	Apr 25, 2016	Detecting Presence of an Object in the Vicinity of a Touch Interface of a Device
Atmel Corporation	8717325	US	May 6, 2014	Detecting Presence of an Object in the Vicinity of a Touch Interface of a Device
Atmel Corporation	9035663	US	May 19, 2015	Capacitive Position Encoder
Atmel Corporation	9317161	US	Apr 19, 2016	Touch Sensor with Spacers Supporting a Cover Panel
Atmel Corporation	9372580	US	Jun 21, 2016	Enhanced Touch Detection Methods
Atmel Corporation	8947105	US	Feb 3, 2015	Capacitive Coupling of Bond Pads
Atmel Corporation	8497741	US	Jul 30, 2013	High Accuracy RC Oscillator
Atmel Corporation	9496936	US	Nov 15, 2016	Secure Contactless Data Communication
Atmel Corporation	9288852	US	Mar 15, 2016	Driving Circuits for Light Emitting Elements
Atmel Corporation	9356960	US	May 31, 2016	Securing Radio-Frequency Identification Systems
Atmel Corporation	9072138	US	Jun 30, 2015	Color Correcting Device Driver
Atmel Corporation	8575863	US	Nov 5, 2013	Color Correcting Device Driver
Atmel Corporation	8952623	US	Feb 10, 2015	Multi-Channel Driver Equalizer
Atmel Corporation	9442535	US	Sep 13, 2016	Touch Sensor with Integrated Antenna
Atmel Corporation	8558581	US	Oct 15, 2013	Analog Rail-To-Rail Comparator with Hysteresis
Atmel Corporation	9317462	US	Apr 19, 2016	Microcontroller Resource Sharing
Atmel Corporation	8984195	US	Mar 17, 2015	Microcontroller Including Alternative Links Between Peripherals for Resource Sharing
Atmel Corporation	8929110	US	Jan 6, 2015	Pulse Width Modulation Controller Architectures

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	9013110	US	Apr 21, 2015	Circuit for Driving Light Emitting Elements
Atmel Corporation	8604699	US	Dec 10, 2013	Self-Power for Device Driver
Atmel Corporation	8912770	US	Dec 16, 2014	Power Conversion Feedback Control Circuit
Atmel Corporation	8830759	US	Sep 9, 2014	Sense Amplifier with Offset Current Injection
Atmel Corporation	9195249	US	Nov 24, 2015	Adaptive Phase-Lead Compensation with Miller Effect
Atmel Corporation	9244570	US	Jan 26, 2016	System and Method for Reducing the Effects of Parasitic Capacitances
Atmel Corporation	8461912	US	Jun 11, 2013	Switched-Capacitor, Curvature-Compensated Bandgap Voltage Reference
Atmel Corporation	8941014	US	Jan 27, 2015	Complex Adhesive Boundaries for Touch Sensors
Atmel Corporation	8711292	US	Apr 29, 2014	Integrated Touch Screen
Atmel Corporation	9071249	US	Jun 30, 2015	Corrosion Resistant Touch Sensor
Atmel Corporation	9471185	US	Oct 18, 2016	Flexible Touch Sensor Input Device
Atmel Corporation	8514645	US	Aug 20, 2013	Current-Mode Sense Amplifier for High-Speed Sensing
Atmel Corporation	9372582	US	Jun 21, 2016	Self-Capacitance Measurement
Atmel Corporation	8890824	US	Nov 18, 2014	Connecting Conductive Layers Using In-Mould Lamination And Decoration
Atmel Corporation	9160332	US	Oct 13, 2015	Method and System for Mechanical Coupling of Flexible Printed Circuit to a Sensor
Atmel Corporation	9063751	US	Jun 23, 2015	Single-wire Bootloader for Target Device with Self-programming Capability

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	8839084	US	Sep 16, 2014	Digital Architectures For Serial Data Stream Operations
Atmel Corporation	9306560	US	Apr 5, 2016	Self-Capacitance Detection Using Trans-Conductance Reference
Atmel Corporation	9069423	US	Jun 30, 2015	Buffer-Reference Self-Capacitance Measurement
Atmel Corporation	9337833	US	May 10, 2016	Driven Shield for Shaping an Electric Field of a Touch Sensor
Atmel Corporation	8786356	US	Jul 22, 2014	Conductive Shield for Shaping an Electric Field of a Conductive Wire
Atmel Corporation	8952927	US	Feb 10, 2015	Self-Capacitance Measurement with Compensated Capacitance
Atmel Corporation	9312855	US	Apr 12, 2016	Touch Sensor Tracks
Atmel Corporation	9262019	US	Feb 16, 2016	Touch Sensor with Conductive Lines Having Different Widths
Atmel Corporation	9154257	US	Oct 6, 2015	Touch Sensor with Conductive Lines Having Portions with Different Widths
Atmel Corporation	9244559	US	Jan 26, 2016	Integrated Pixel Display and Touch Sensor
Atmel Corporation	9262023	US	Feb 16, 2016	Drive Signals for a Touch Sensor
Atmel Corporation	9013444	US	Apr 21, 2015	Self-Capacitance Measurement with Isolated Capacitance
Atmel Corporation	9007824	US	Apr 14, 2015	Boosting Memory Reads
Atmel Corporation	8928301	US	Jan 6, 2015	Pulse Width Modulation Based Controller
Atmel Corporation	8639851	US	Jan 28, 2014	Serial Bit Processor
Atmel Corporation	8885413	US	Nov 11, 2014	Adaptive Programming for Non-Volatile Memory Devices
Atmel Corporation	8837252	US	Sep 16, 2014	Memory Decoder Circuit

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	9116584	US	Aug 25, 2015	Dielectric Layer for Touch Sensor Stack
Atmel Corporation	9081152	US	Aug 4, 2015	Dielectric Layer for Touch Sensor Stack
Atmel Corporation	9134871	US	Sep 15, 2015	Current Mirror Self-Capacitance Measurement
Atmel Corporation	8896327	US	Nov 25, 2014	Current Mirror Self-Capacitance Measurement
Atmel Corporation	8319509	US	Nov 27, 2012	Testing Circuit for an Analog to Digital Converter
Atmel Corporation	9459737	US	Oct 4, 2016	Proximity Detection Using Multiple Inputs
Atmel Corporation	8917261	US	Dec 23, 2014	Pixel Occlusion Mitigation
Atmel Corporation	9354737	US	May 31, 2016	Active Stylus Self- Capacitance Measurement
Atmel Corporation	9171188	US	Oct 27, 2015	Charge Measurement
Atmel Corporation	8723586	US	May 13, 2014	Charge Measurement
Atmel Corporation	8909929	US	Dec 9, 2014	Stored Public Key Validity Registers for Cryptographic Devices and Systems
Atmel Corporation	8822270	US	Sep 2, 2014	Configurable Passive Components
Atmel Corporation	9294300	US	Mar 22, 2016	Token Based Communication in Daisy Chain Configured Battery Management Devices
Atmel Corporation	9323950	US	Apr 16, 2016	Generating Signatures Using a Secure Device
Atmel Corporation	8943238	US	Jan 27, 2015	Operations Using Direct Memory Access
Atmel Corporation	9448659	US	Sep 20, 2016	Simultaneous Touch Sensor Scanning and Display Refreshing for Minimizing Display Degradation for Display-Embedded Touch Sensors
Atmel Corporation	8704589	US	Apr 22, 2014	Reference Voltage Circuits
Atmel Corporation	9142306	US	Sep 22, 2015	Selecting Memory Cells

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	9563304	US	Feb 7, 2017	Active Stylus with Passive Mutual Measurements
Atmel Corporation	8884798	US	Nov 11, 2014	Binary Divarication Digital- to-Analog Conversion
Atmel Corporation	9098155	US	Aug 4, 2015	Self-Capacitance Measurement Using Compensation Capacitor
Atmel Corporation	9046942	US	Jun 2, 2015	Combined Accumulator and Maximum/Minimum Comparator
Atmel Corporation	9256301	US	Feb 9, 2016	Active Stylus with Noise Immunity
Atmel Corporation	9213455	US	Dec 15, 2015	Stylus with Resonant Circuit
Atmel Corporation	9170592	US	Oct 27, 2015	Fully Integrated Voltage Regulator Using Open Loop Digital Control for Optimum Power Stepping and Slew Rate
Atmel Corporation	9310924	US	Apr 12, 2016	Increasing the Dynamic Range of an Integrator Based Mutual-Capacitance Measurement Circuit
Atmel Corporation	8928624	US	Jan 6, 2015	Differential Sensing for Capacitive Touch Sensors
Atmel Corporation	9292144	US	Mar 22, 2016	Touch-Sensor-Controller Sensor Hub
Atmel Corporation	8736551	US	May 27, 2014	Touch-Sensor-Controller Hub
Atmel Corporation	9360928	US	Jun 7, 2016	Dual Regulator Systems
Atmel Corporation	9213397	US	Dec 15, 2015	Changing Power Modes of a Microcontroller System
Atmel Corporation	9513691	US	Dec 6, 2016	Microcontroller Input/Output Connector State Retention in Low-Power Modes
Atmel Corporation	9063734	US	Jun 23, 2015	Microcontroller Input/Output Connector State Retention in Low-Power Modes
Atmel Corporation	9298237	US	Mar 29, 2016	Voltage Scaling System with Sleep Mode

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	8629796	US	Jan 14, 2014	Preventing Interference Between Microntroller Components
Atmel Corporation	9323312	US	Apr 26, 2016	Systems and Methods for Delaying Interrupts in a Microcontroller System
Atmel Corporation	9213388	US	Dec 15, 2015	Delaying Reset Signals in a Microcontroller System
Atmel Corporation	9250690	US	Feb 2, 2016	Low-Power Modes of Microcontroller Operation with Access to Configurable Input/Output Connections
Atmel Corporation	8847291	US	Sep 30, 2014	Stress Relief for Plastic Encapsulated Devices
Atmel Corporation	9032116	US	May 12, 2015	ADC Sequencing
Atmel Corporation	8775694	US	Jul 8, 2014	ADC Sequencing
Atmel Corporation	9423843	US	Aug 23, 2016	Processor Maintaining Reset-State after Reset Signal is Suspended
Atmel Corporation	9146887	US	Sep 29, 2015	Automating Digital Display
Atmel Corporation	8902395	US	Dec 2, 2014	Package Dependant Segment Terminal Remapping For Driving Liquid Crystal Displays
Atmel Corporation	8726223	US	May 13, 2014	Hot-Plugging Debugger Architectures
Atmel Corporation	9507406	US	Nov 29, 2016	Configuring Power Domains of a Microcontroller System
Atmel Corporation	9329782	US	May 3, 2016	Microcontroller with Integrated Interface Enabling Reading Data Randomly from Serial Flash Memory
Atmel Corporation	8880785	US	Nov 4, 2014	Microcontroller with Integrated Interface Enabling Reading Data Randomly from Serial Flash Memory
Atmel Corporation	8803004	US	Aug 12, 2014	Complex Adhesive Boundaries for Touch Sensors

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	9274538	US	Mar 1, 2016	Voltage Scaling System
Atmel Corporation	8575997	US	Nov 5, 2013	Voltage Scaling System
Atmel Corporation	8988376	US	Mar 24, 2015	Charge Compensation for Capacitive Touch Sensor Nodes
Atmel Corporation	9152598	US	Oct 6, 2015	Connecting Multiple Slave Devices to Single Master Controller in Bus System
Atmel Corporation	9274152	US	Mar 1, 2016	Current-Based Charge Compensation in a Touch Sensor
Atmel Corporation	9257153	US	Feb 9, 2016	Current Monitoring Circuit for Memory Wakeup Time
Atmel Corporation	9081454	US	Jul 14, 2015	Touch Senseor with Capacitive Voltage Driver
Atmel Corporation	9024533	US	May 5, 2015	Controlling Switching Current Regulators
Atmel Corporation	9318959	US	Apr 19, 2016	Low Total Harmonic Distortion and High Power Factor Correction Power Converters
Atmel Corporation	9118467	US	Aug 25, 2015	Generating Keys Using Secure Hardware
Atmel Corporation	9372818	US	Jun 21, 2016	Proactive Quality of Service in Multi-Matrix Bus
Atmel Corporation	9557361	US	Jan 31, 2017	Edgeless Single-Layer Touch Sensor
Atmel Corporation	9572206	US	Feb 14, 2017	Active Valley Fill Power Factor Correction
Atmel Corporation	9088219	US	Jul 21, 2015	Dual-Mode, Isolated AC/DC Power Converter with Power Factor Correction
Atmel Corporation	9306446	US	Apr 5, 2016	Fault Protection and Correction of Line and Load Faults
Atmel Corporation	8933640	US	Jan 13, 2015	Circuitry for Current Regulated, Externally Controlled LED Driving

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	9395836	US	Jul 19, 2016	System and Method for Reducing Borders of a Touch Sensor
Atmel Corporation	9207802	US	Dec 8, 2015	Suppression of Unintended Touch Objects
Atmel Corporation	9568524	US	Feb 14, 2017	Multi-State Capacitive Button
Atmel Corporation	9389727	US	Jul 12, 2016	Method and System to Determine When a Device is Being Held
Atmel Corporation	8653871	US	Feb 18, 2014	Counter Circuit
Atmel Corporation	9535545	US	Jan 3, 2017	Common Mode Noise Suppression During Hovering and Proximity Detection
Atmel Corporation	9274656	US	Mar 1, 2016	Fast Scanning for Mutual Capacitance Screens
Atmel Corporation	9542046	US	Jan 10, 2017	Changing the Detection Range of a Touch Sensor
Atmel Corporation	9081443	US	Jul 14, 2015	Shieldless Touch Sensor Noise Cancellation
Atmel Corporation	9577521	US	Feb 21, 2017	Average Current Control for a Switched Power Converter
Atmel Corporation	9148925	US	Sep 29, 2015	Average Current Control for a Switched Power Converter
Atmel Corporation	9076002	US	Jul 7, 2015	Stored Authorization Status for Cryptographic Operations
Atmel Corporation	9442599	US	Sep 13, 2016	System and Method for Using Signals Resulting From Signal Transmission in a Touch Sensor
Atmel Corporation	9086770	US	Jul 21, 2015	Touch Sensor with High-Density Macro-Feature Design
Atmel Corporation	9110550	US	Aug 18, 2015	Method for Restructuring Distorted Capacitive Touch Data
Atmel Corporation	9335873	US	May 10, 2016	Method of Compensating for Retransmission Effects in a Touch Sensor

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	9383805	US	Jul 5, 2016	Generating Clock on Demand
Atmel Corporation	9405720	US	Aug 2, 2016	Managing Wait States for Memory Access
Atmel Corporation	9396370	US	Jul 19, 2016	Carrier Compensation Reader
Atmel Corporation	9465490	US	Oct 11, 2016	Curved Surface Sensor Pattern
Atmel Corporation	9310944	US	Apr 12, 2016	Oncell Single-Layer Touch Sensor
Atmel Corporation	9152254	US	Oct 6, 2015	Electrical Connection for Active-Stylus Electrode
Atmel Corporation	9274644	US	Mar 1, 2016	Synchronization of Active Stylus and Touch Sensor
Atmel Corporation	9256399	US	Feb 9, 2016	Breaking Program Execution on Events
Atmel Corporation	9152285	US	Oct 6, 2015	Position Detection of an Object Within Proximity of a Touch Sensor
Atmel Corporation	9470725	US	Oct 18, 2016	Measuring Power Consumption of Circuit Component Operating in Ultra-Low Power Mode
Atmel Corporation	8878569	US	Nov 4, 2014	Self-Recovering Bus Signal Detector
Atmel Corporation	9054685	US	Jun 9, 2015	Programmable Bus Signal Hold Time Without System Clock
Atmel Corporation	9552385	US	Jan 24, 2017	Centralized Peripheral Access Protection
Atmel Corporation	8736571	US	May 27, 2014	Mesh Design for Touch Sensors
Atmel Corporation	9444408	US	Sep 13, 2016	Sense Amplifier
Atmel Corporation	9354734	US	May 31, 2016	Common-Mode Hover Detection
Atmel Corporation	9213423	US	Dec 15, 2015	Method and System for Determining Stylus Tilt in Relation to a Touch-Sensing Device
Atmel Corporation	9182958	US	Nov 10, 2015	Software Code Profiling

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	9354740	US	May 31, 2016	Object Orientation Determination
Atmel Corporation	9489287	US	Nov 8, 2016	Breaking Code Execution Based on Time Consumption
Atmel Corporation	9128554	US	Sep 8, 2015	Chained Differential Sensing for Touch Sensors
Atmel Corporation	9442873	US	Sep 13, 2016	Direct Memory Access Controller
Atmel Corporation	8880756	US	Nov 4, 2014	Direct Memory Access Controller
Atmel Corporation	9465489	US	Oct 11, 2016	Randomized Mesh Design
Atmel Corporation	9112513	US	Aug 18, 2015	Calibrating Temperature Coefficients for Integrated Circuits
Atmel Corporation	9383807	US	Jul 5, 2016	Configuring Power Domains of a Microcontroller System
Atmel Corporation	9329705	US	May 3, 2015	Stylus with Asymmetric Electronic Characteristics
Atmel Corporation	9304617	US	Apr 5, 2016	Mesh Design for Touch Sensors
Atmel Corporation	9501078	US	Nov 22, 2016	Voltage Reference with Low Sensitivity to Package Shift
Atmel Corporation	9013231	US	Apr 21, 2015	Voltage Reference with Low Sensitivity to Package Shift
Atmel Corporation	9164136	US	Oct 20, 2015	Capacitive Measurement Circuit for a Touch Sensor Device
Atmel Corporation	9035691	US	May 19, 2015	Gate Control Circuit for MOS Switch
Atmel Corporation	9298327	US	Mar 29, 2016	Integrated Shielding In Touch Sensors
Atmel Corporation	9128577	US	Sep 8, 2015	Hybrid Capacitive Touch System Design and Method
Atmel Corporation	9030228	US	May 12, 2015	Intelligent Current Drive for Bus Lines
Atmel Corporation	9471524	US	Oct 18, 2016	System Bus Transaction Queue Reallocation

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	9298222	US	Mar 29, 2016	Touch Sensor with Plastic Lens Cover
Atmel Corporation	9436328	US	Sep 6, 2016	Single-Layer Touch Sensor
Atmel Corporation	8896573	US	Nov 25, 2014	Line Spacing in Mesh Designs for Touch Sensors
Atmel Corporation	9417729	US	Aug 16, 2016	Charge Compensation During Touch Sensing
Atmel Corporation	8947391	US	Feb 3, 2015	Line Spacing in Mesh Designs for Touch Sensors
Atmel Corporation	8947390	US	Feb 3, 2015	Line Spacing in Mesh Designs for Touch Sensors
Atmel Corporation	9280246	US	Mar 8, 2016	Line Spacing in Mesh Designs for Touch Sensors
Atmel Corporation	9454252	US	Sep 27, 2016	Touch-Sensor Mesh Design for Display with Complex- Shaped Sub-Pixels
Atmel Corporation	9569016	US	Feb 14, 2017	Low-Power And Low-Frequency Data Transmission For Stylus
Atmel Corporation	9389708	US	Jul 12, 2016	Active Stylus with Force Sensor
Atmel Corporation	9502581	US	Nov 22, 2016	Non-Volatile Floating Gate Memory Cells
Atmel Corporation	8943903	US	Feb 3, 2015	Line Spacing in Mesh Designs for Touch Sensors
Atmel Corporation	9354611	US	May 31, 2016	Event Driven Signal Converters
Atmel Corporation	9478189	US	Oct 25, 2016	Touch Sensor
Atmel Corporation	9465499	US	Oct 11, 2016	Optical-Band Visibility for Touch-Sensor Mesh Designs
Atmel Corporation	9285942	US	Mar 15, 2016	Optical-Band Visibility for Touch-Sensor Mesh Designs
Atmel Corporation	9560673	US	Jan 31, 2017	Configurable Clear Channel Assessment
Atmel Corporation	9490999	US	Nov 8, 2016	Single Wire Communications Using Iterative Baud Learning

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	9483129	US	Nov 1, 2016	Active Stylus with Fractional Clock-Cycle Timing
Atmel Corporation	9355509	US	May 31, 2016	Sign Detection in Multi-Dimensional Signal Measurements
Atmel Corporation	9489990	US	Nov 8, 2016	Adaptive Non-Volatile Memory Programming
Atmel Corporation	7506205	US	Mar 17, 2009	Debugging System and Method for Use with Software Breakpoint
Atmel Corporation	7596719	US	Sep 29, 2009	Microcontroller Information Extraction System and Method
Atmel Corporation	7451367	US	Nov 11, 2008	Accessing Sequential Data in Microcontrollers
Atmel Corporation	7428610	US	Sep 23, 2008	Writing to and Configuring Flash Memory
Atmel Corporation	7506228	US	Mar 17, 2009	Measuring the Internal Clock Speed of an Integrated Circuit
Atmel Corporation	7610528	US	Oct 27, 2009	Configuring Flash Memory
Atmel Corporation	7595608	US	Sep 29, 2009	Gate Driver for a Battery Pack
Atmel Corporation	7274999	US	Sep 25, 2007	Brownout Detector System and Method
Atmel Corporation	7443260	US	Oct 28, 2008	Low Power Oscillator
Atmel Corporation	7635925	US	Dec 22, 2009	Analog Combination Regulator
Atmel Corporation	8031540	US	Oct 4, 2011	Rom/Ram Read Signature Scramble
Atmel Corporation	7554865	US	Jun 30, 2009	Randomizing Current Consumption in Memory Devices
Atmel Corporation	8013473	US	Sep 6, 2011	Detector Based Combination Regulator
Atmel Corporation	7613907	US	Nov 3, 2009	Embedded Software Comouflage Against Code Reverse Engineering
Atmel Corporation	7505326	US	Mar 17, 2009	Programming Pulse Generator

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	7417904	US	Aug 26, 2008	Adaptive Gate Voltage Regulation
Atmel Corporation	8181042	US	May 15, 2012	Low Power Mode Data Preservation in Secure ICs
Atmel Corporation	7990108	US	Aug 2, 2011	Charge Detector
Atmel Corporation	8370606	US	Feb 5, 2013	Switching Data Pointers Based on Context
Atmel Corporation	7797516	US	Sep 14, 2010	Microcontroller with Low-Cost Digital Signal Processing Extensions
Atmel Corporation	7689762	US	Mar 30, 2010	Storage Device Wear Leveling
Atmel Corporation	8051263	US	Nov 1, 2011	Configurable Memory Protection
Atmel Corporation	7683699	US	Mar 23, 2010	Charge Pump
Atmel Corporation	7642815	US	Jan 5, 2010	Sense Amplifier
Atmel Corporation	8067975	US	Nov 29, 2011	MOS Resistor with Second or Higher Order Compensation
Atmel Corporation	7719341	US	May 18, 2010	MOS Resistor with Second or Higher Order Compensation
Atmel Corporation	7564385	US	Jul 21, 2009	Current Compensation for Digital-to-Analog Converter
Atmel Corporation	8055963	US	Nov 8, 2011	Accessing Sequential Data in a Microcontroller
Atmel Corporation	7900106	US	Mar 1, 2011	Accessing Sequential Data in a Microcontroller
Atmel Corporation	8115281	US	Feb 14, 2012	Differential Varactor
Atmel Corporation	8018065	US	Sep 13, 2011	Wafer-Level Integrated Circuit Package with Top and Bottom Side Electrical Connections
Atmel Corporation	7629847	US	Dec 8, 2009	Opposing Currents Differential Amplifier
Atmel Corporation	7002386	US	Feb 21, 2006	Self-Limiting Pulse Width Modulation Regulator
Atmel Corporation	6992517	US	Jan 31, 2006	Self-Limiting Pulse Width Modulation Regulator

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	7284081	US	Oct 16, 2007	Method and System for High Speed USB Data Routing
Atmel Corporation	7227317	US	Jun 5, 2007	Method and System for Enhanced Dimming Resolution in A Light Ballast Through Use of Multiple Control Frequencies
Atmel Corporation	7301814	US	Nov 27, 2007	System and Method for Avoiding Offset In and Reducing the Footprint of a Non-Volatile Memory
Atmel Corporation	7269058	US	Sep 11, 2007	System and Method for Preserving an Error Margin for a Non-Volatile Memory
Atmel Corporation	7249215	US	Jul 24, 2007	Method and System for Configuring Parameters for a Flash Memory
Atmel Corporation	7181565	US	Feb 20, 2007	Method and System for Configuring Parameters for a Flash Memory
Atmel Corporation	7176750	US	Feb 13, 2007	Method and Apparatus for Fast Power-On of the Band-Gap Reference
Atmel Corporation	7302518	US	Nov 27, 2007	Method and System for Managing a Suspend Request in a Flash Memory
Atmel Corporation	7379338	US	May 27, 2008	Method and System for Regulating a Program Voltage Value During Multilevel Memory Device Programming
Atmel Corporation	7184311	US	Feb 27, 2007	Method and System for Regulating a Program Voltage Value During Multilevel Memory Device Programming
Atmel Corporation	8139679	US	Mar 20, 2012	System and Method for Controlling Modulation
Atmel Corporation	7440515	US	Oct 21, 2008	System and Method for Controlling Modulation
Atmel Corporation	7119727	US	Oct 10, 2006	Analog-to-Digital Converter

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	7769799	US	Aug 3, 2010	Discrete-Time Analog, Digitally Programmable Filter and Method
Atmel Corporation	7962766	US	Jun 14, 2011	Method and System for Encryption-Based Design Obfuscation for An Integrated Circuit
Atmel Corporation	7333389	US	Feb 19, 2008	Column Decoding Architecture for Flash Memories
Atmel Corporation	7499334	US	Mar 3, 2009	Method and Apparatus for Discharging a Memory Cell in a Memory Device after an Erase Operation
Atmel Corporation	7177198	US	Feb 13, 2007	Compensated Method to Implement a High Voltage Discharge Phase After Erase Pulse in a Flash Memory Device
Atmel Corporation	7345921	US	Mar 18, 2008	Method and System for a Programming Approach for a Nonvolatile Electronic Device
Atmel Corporation	8120963	US	Feb 21, 2012	Method and System for Program Pulse Generation During Programming of Nonvolatile Electronic Devices
Atmel Corporation	8553460	US	Oct 8, 2013	Method and System for Program Pulse Generation During Programming of Nonvolatile Electronic Devices
Atmel Corporation	7570519	US	Aug 4, 2009	Method and System for Program Pulse Generation During Programming of Nonvolatile Electronic Devices
Atmel Corporation	7404049	US	Jul 22, 2008	Method and System for Managing Address Bits During Buffered Program Operations in a Memory Device
Atmel Corporation	7864557	US	Jan 4, 2011	Flexible OTP Sector Protection Architecture for Flash Memories

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	7130209	US	Oct 31, 2006	Flexible OTP Sector Protection Architecture for Flash Memories
Atmel Corporation	7430150	US	Sep 30, 2008	Method and System for Providing Sensing Circuitry in a Multi-Bank Memory Device
Atmel Corporation	7283396	US	Oct 16, 2007	System and Method for Matching Resistance in a Non-Volatile Memory
Atmel Corporation	7336542	US	Feb 26, 2008	Nonvolatile Latch
Atmel Corporation	7693669	US	Apr 6, 2010	Method and Circuit for Detecting a Brown Out Condition
Atmel Corporation	7245152	US	Jul 17, 2007	Voltage-Level Shifter
Atmel Corporation	7482837	US	Jan 27, 2009	System and Method for Combining Signals on a Differential I/O link
Atmel Corporation	7541250	US	Jun 2, 2009	Method for Forming A Self-Aligned Twin Well Region with Simplified Processing
Atmel Corporation	7642181	US	Jan 5, 2010	LOCOS Self-Aligned Twin Well with A Co-Planar Silicon Surface
Atmel Corporation	8138578	US	Mar 20, 2012	Method and System for Creating Self-Aligned Twin Wells with Co-Planar Surfaces in a Semiconductor Device
Atmel Corporation	7521312	US	Apr 21, 2009	Method and System for Creating Self-Aligned Twin Wells with Co-Planar Surfaces in a Semiconductor Device
Atmel Corporation	7392448	US	Jun 24, 2008	Method and Apparatus for Determining Stuck-At Fault Locations in Cell Chains Using Scan Chains
Atmel Corporation	8316174	US	Nov 20, 2012	Microcontroller Based Flash Memory Digital Controller System

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	7600090	US	Oct 6, 2009	Microcontroller Based Flash Memory Digital Controller System
Atmel Corporation	8327161	US	Dec 4, 2012	Command Decoder for Microcontroller Based Flash Memory Digital Controller System
Atmel Corporation	7574611	US	Aug 11, 2009	Command Decoder for Microcontroller Based Flash Memory Digital Controller System
Atmel Corporation	7702885	US	Apr 20, 2010	Firmware Extendable Commands Including a Test Mode Command for a Microcontroller-Based Flash Memory Controller
Atmel Corporation	7639764	US	Dec 29, 2009	Method and Apparatus for Synchronizing Data Between Different Clock Domains In A Memory Controller
Atmel Corporation	7292174	US	Nov 6, 2007	Current Sensing Analog to Digital Converter and Method of Use
Atmel Corporation	7113122	US	Sep 26, 2006	Current Sensing Analog to Digital Converter and Method of Use
Atmel Corporation	8143860	US	Mar 27, 2012	Single Chip Microcontroller Including Battery Management and Protection
Atmel Corporation	7759902	US	Jul 20, 2010	Single Chip Microcontroller Including Battery Management and Protection
Atmel Corporation	7167029	US	Jan 23, 2007	Sampling and Level Shifting Circuit
Atmel Corporation	7439558	US	Oct 21, 2008	Method and System for Controlled Oxygen Incorporation in Compound Semiconductor Films for Device Performance Enhancement

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	7300849	US	Nov 27, 2007	Bandgap Engineered Mono-Crystalline Silicon Cap Layers for SiGe HBT Performance Enhancement
Atmel Corporation	7651919	US	Jan 26, 2010	Bandgap and Recombination Engineered Emitter Layers for SiGe HBT Performance Optimization
Atmel Corporation	7647486	US	Jan 12, 2010	Method and System Having Instructions with Different Execution Times in Different Modes, Including a Selected Execution Time Different from Default Execution Times in a First Mode and a Random Execution Time in a Second Mode
Atmel Corporation	8219855	US	Jul 10, 2012	Mechanism for Storing and Extracting Trace Information Using Internal Memory in Micro Controllers
Atmel Corporation	8370687	US	Feb 5, 2013	A Mechanism for Storing and Extracting Trace Information Using Internal Memory in Micro Controllers
Atmel Corporation	7506206	US	Mar 17, 2009	Mechanism for Providing Program Breakpoints in a Microcontroller with Flash Program Memory
Atmel Corporation	7848070	US	Dec 7, 2010	Electrostatic Discharge (ESD) Protection Structure and a Circuit Using the Same
Atmel Corporation	7402846	US	Jul 22, 2008	Electrostatic Discharge (ESD) Protection Structure and a Circuit Using the Same
Atmel Corporation	8118214	US	Feb 21, 2012	Method and System for Generating Electronic Keys
Atmel Corporation	7855538	US	Dec 21, 2010	Method for Current Sensing in Switched DC-to-DC Converters

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	7375503	US	May 20, 2008	System for Current Sensing in Switched DC-to-DC Converters
Atmel Corporation	8533439	US	Sep 10, 2013	Elastic Shared RAM Arrya Including Contiguous Instruction and Data Portions Distinct from Each other
Atmel Corporation	7729553	US	Jun 1, 2010	Vector Quantizer Based on N-Dimensional Spatial Dichotomy
Atmel Corporation	7821122	US	Oct 26, 2010	Method and System for Increasing Circuitry Interconnection and Component Capacity in a Multi-Component Package
Atmel Corporation	7880193	US	Feb 1, 2011	Method for Forming an Integral Electromagnetic Radiation Shield in an Electronic Package
Atmel Corporation	7626247	US	Dec 1, 2009	Electronic Package with Integral Electromagnetic Radiation Shield and Methods Related Thereto
Atmel Corporation	8237266	US	Aug 7, 2012	Component Stacking for Integrated Circuit Electronic Package
Atmel Corporation	8525329	US	Sep 3, 2013	Component Stacking for Integrated Circuit Electronic Package
Atmel Corporation	7342308	US	Mar 11, 2008	Component Stacking for Integrated Circuit Electronic Package
Atmel Corporation	8093640	US	Jan 10, 2012	Method and System for Incorporating High Voltage Devices in an EEPROM
Atmel Corporation	7560334	US	Jul 14, 2009	Method and System for Incorporating High Voltage Devices in an EEPROM

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	7688001	US	Mar 30, 2010	Method and System for Providing a Charge Pump for Low Voltage Applications
Atmel Corporation	7855591	US	Dec 21, 2010	Method and System for Providing a Charge Pump Very Low Voltage Applications
Atmel Corporation	7849312	US	Dec 7, 2010	Method and System for Secure External TPM Password Generation and Use
Atmel Corporation	7746154	US	Jun 29, 2010	Multi-Voltage Multiplexer System
Atmel Corporation	7583107	US	Sep 1, 2009	Sense Amplifier for Low Voltage Applications
Atmel Corporation	7652522	US	Jan 26, 2010	High Efficiency Low Cost Bi-Directional Charge Pump Circuit for Very Low Voltage Applications
Atmel Corporation	7683592	US	Mar 23, 2010	Low Dropout Voltage Regulator with Switching Output Current Boost Circuit
Atmel Corporation	7772894	US	Aug 10, 2010	Method for Providing a Power On Reset Signal with a Quadratic Current Compared to an Exponential Current
Atmel Corporation	7777537	US	Aug 17, 2010	Method for Providing a Power on Reset Signal with a Logarithmic Current Compared with a Quadratic Current
Atmel Corporation	7573748	US	Aug 11, 2009	Column Leakage Compensation in a Sensing Circuit
Atmel Corporation	7782695	US	Aug 24, 2010	Compensated Current Offset in a Sensing Circuit
Atmel Corporation	7522463	US	Apr 21, 2009	Sense Amplifier with Two Parallel Stages to Erase Mismatch of Capacitance in Current Mirror Load

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	7561485	US	Jul 14, 2009	Sense Architecture: Bit-Lines Capacitance Matching and New Type of Local Reference
Atmel Corporation	7563694	US	Jul 21, 2009	Scribe Based Bond Pads for Integrated Circuits
Atmel Corporation	7656121	US	Feb 2, 2010	Soft Transition from Constant-Current to a Constant-Voltage Mode in a Battery Charger
Atmel Corporation	8471244	US	Jun 25, 2013	Method and System for Providing a Metal Oxide Semiconductor Device Having a Drift Enhanced Channel
Atmel Corporation	8115462	US	Feb 14, 2012	Voltage Regulator for an Integrated Circuit
Atmel Corporation	7769933	US	Aug 3, 2010	Serialization of Data for Communication with Master in Multi-Chip Bus Implementation
Atmel Corporation	7761632	US	Jul 20, 2010	Serialization of Data for Communication with Slave in Multi-Chip Bus Implementation
Atmel Corporation	7743186	US	Jun 22, 2010	Serialization of Data for Communication with Different-Protocol Slave in Multi-Chip Bus Implementation
Atmel Corporation	7814250	US	Oct 12, 2010	Serialization of Data for Multi-Chip Bus Implementation
Atmel Corporation	8059019	US	Nov 15, 2011	Method and System for Minimizing the Accumulated Offset Error for an Analog to Digital Converter
Atmel Corporation	8704690	US	Apr 22, 2014	Method and System for Minimizing the Accumulated Offset Error for an Analog to Digital Converter
Atmel Corporation	7684244	US	Mar 23, 2010	High Density Non-Volatile Memory Array

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	7646645	US	Jan 12, 2010	Method and Apparatus for Testing the Functionality of a Page Decoder
Atmel Corporation	7652517	US	Jan 26, 2010	Method and Apparatus for Generating Synchronous Clock Signals from a Common Clock Signal
Atmel Corporation	7592872	US	Sep 22, 2009	Differential Amplifier with Single Ended Output
Atmel Corporation	8261072	US	Sep 4, 2012	Method and System for Secure External TPM Password Generation and Use
Atmel Corporation	6600789	US	Jul 29, 2003	Signal Processing Method and Device
Atmel Corporation	6354500	US	Mar 12, 2002	Method for Communicating with a Plurality of Contactless Data Carriers and Contactless Data Carriers for Use Therein
Atmel Corporation	6138918	US	Oct 31, 2000	Portable Data Carrier and Method for Selecting Operating Mode Thereof
Atmel Corporation	6209016	US	Mar 27, 2001	Co-Processor for Performing Modular Multiplication
Atmel Corporation	6232591	US	May 15, 2001	Light Detection Device
Atmel Corporation	5931956	US	Aug 3, 1999	Digital Circuit Using Memory for Monitoring Signals for Occurrences of Predefined Breakpoint Conditions
Atmel Corporation	6032248	US	Feb 29, 2000	A Microcontroller Having a Single Memory Module Storing Data Memory and Code Memory and Supporting Independent Read/Write Access to Both
Atmel Corporation	5809327	US	Sep 15, 1998	Eight-Bit Microcontroller Having a RISC Architecture
Atmel Corporation	6154161	US	Nov 28, 2000	Integrated Audio Mixer
Atmel Corporation	5732017	US	Mar 24, 1998	Combined Program and Data Nonvolatile Memory with

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
				Concurrent Program-Read/Data Write Capability
Atmel Corporation	5828603	US	Oct 27, 1998	Power Supply-Independent, Zero Power Bit Line Voltage Limiting Scheme for Non-Volatile Memories
Atmel Corporation	6028491	US	Feb 22, 2000	Crystal Oscillator with Controlled Duty Cycle
Atmel Corporation	5949274	US	Sep 7, 1999	High Impedance Bias Circuit for AC Signal Amplifiers
Atmel Corporation	5945920	US	Aug 31, 1999	Minimum Voltage Radio Frequency Identification
Atmel Corporation	5974486	US	Oct 26, 1999	Universal Serial Bus Device Controller Comprising a FIFO Associated With a Plurality of Endpoints and a Memory for Storing an Identifier of a Current Endpoint
Atmel Corporation	6032279	US	Feb 29, 2000	Boundary Scan System With Address Dependent Instructions
Atmel Corporation	5946267	US	Aug 31, 1999	Zero Power High Speed Configuration Memory
Atmel Corporation	5963496	US	Oct 5, 1999	Sense Amplifier with Zero Power Idle Mode
Atmel Corporation	5936444	US	Aug 10, 1999	Zero Power Power-On- Reset Circuit
Atmel Corporation	6029187	US	Feb 22, 2000	Fast Regular Multiplier Architecture
Atmel Corporation	5848026	US	Dec 8, 1998	Integrated Circuit with Flag Register for Block Selection of Non-Volatile Cells for Bulk Operations
Atmel Corporation	5949259	US	Sep 7, 1999	Zero-Delay Slew-Rate Controlled Output Buffer
Atmel Corporation	5977805	US	Nov 2, 1999	Frequency Synthesis Circuit Tuned by Digital Words

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	6158034	US	Dec 5, 2000	Boundary Scan Method for Terminating or Modifying Integrated Circuit Operating Modes
Atmel Corporation	5968196	US	Oct 19, 1999	Configuration Control in a Programmable Logic Device Using Non-Volatile Memories
Atmel Corporation	6038185	US	Mar 14, 2000	Method and Apparatus for Serial Access Memory
Atmel Corporation	6122331	US	Sep 19, 2000	Digital Automatic Gain Control
Atmel Corporation	6104279	US	Aug 15, 2000	Method of Communicating Between a Plurality of Remote Units and a Control Unit
Atmel Corporation	6140993	US	Oct 31, 2000	Circuit for Transferring High Voltage Video Signal Without Signal Loss
Atmel Corporation	6476785	US	Nov 5, 2002	Drive Circuit for Liquid Crystal Display Cell
Atmel Corporation	6115305	US	Sep 5, 2000	Method and Apparatus for Testing a Video Display Chip
Atmel Corporation	6215432	US	Apr 10, 2001	Reducing Digital Switching Noise in Mixed Signal IC's
Atmel Corporation	5999038	US	Dec 7, 1999	Zero Power Fuse for Partially Blown Fuses
Atmel Corporation	RE36777	US	Jul 11, 2000	Integration of a High Performance Submicron CMAS and Dual-Poly Non- Volatile Memory Devices Using a Third Polysilicon Layer
Atmel Corporation	6356987	US	Mar 12, 2002	Microprocessing Device Having Programmable Wait States
Atmel Corporation	6272657	US	Aug 7, 2001	Apparatus and Method for Programmable Parametric Toggle Testing of Digital CMOS Pads

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	6218729	US	Apr 17, 2001	Apparatus and Method for an Integrated Circuit Having High Q Reactive Components
Atmel Corporation	6597749	US	Jul 22, 2003	Digital Frequency Monitoring
Atmel Corporation	6160443	US	Dec 12, 2000	Dual Automatic Gain Control in a QAM Demodulator
Atmel Corporation	6249179	US	Jun 19, 2001	Direct Digital Synthesis in a QAM Demodulator
Atmel Corporation	6545532	US	Apr 8, 2003	Timing Recovery Circuit in a QAM Demodulator
Atmel Corporation	6249180	US	Jun 19, 2001	Phase Noise and Additive Noise Estimation in a QAM Demodulator
Atmel Corporation	6268767	US	Jul 31, 2001	Dual Bit Error Rate Estimation in a QAM Demodulator
Atmel Corporation	6376914	US	Apr 23, 2002	Dual-Die Integrated Circuit Package
Atmel Corporation	6537895	US	Mar 25, 2003	Method of Forming Shallow Trench Isolation in Silicon
Atmel Corporation	6678646	US	Jan 13, 2004	Method for Implementing a Physical Design for a Dynamically Reconfigurable Logic Circuit
Atmel Corporation	6097657	US	Aug 1, 2000	Method for Reading Out the Contents of a Serial Memory
Atmel Corporation	6344401	US	Feb 5, 2002	Method of Forming a Stacked-Die Integrated Circuit Chip Package on a Wafer Level
Atmel Corporation	6291367	US	Sep 18, 2001	Method for Depositing a Selected Thickness of an Interlevel Dielectric Material to Achieve Optimum Global Planarity on a Semiconductor Wafer
Atmel Corporation	6735181	US	May 11, 2004	Wireless Transceiver with Subtractive Filter Compensating Both Transmit and Receive Artifacts

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	7844831	US	Nov 30, 2010	Secure Memory Device for Smart Cards
Atmel Corporation	7395435	US	Jul 1, 2008	Secure Memory Device for Smart Cards
Atmel Corporation	6331784	US	Dec 18, 2001	Secure Programmable Logic Device
Atmel Corporation	6618289	US	Sep 9, 2003	High Voltage Bit/Column Latch for VCC Operation
Atmel Corporation	6694463	US	Feb 17, 2004	Input/Output Continuity Test Mode Circuit
Atmel Corporation	6400611	US	Jun 4, 2002	Independent Asynchronous Boot Block for Synchronous Non-Volatile Memory Devices
Atmel Corporation	6518798	US	Feb 11, 2003	Sense Amplifier with Improved Latching
Atmel Corporation	6700415	US	Mar 2, 2004	Sense Amplifier with Configurable Voltage Swing Control
Atmel Corporation	6597603	US	Jul 22, 2003	Dual Mode High Voltage Power Supply for Providing Increased Speed in Programming During Testing of Low Voltage Non- Volatile Memories
Atmel Corporation	6541284	US	Apr 1, 2003	Integrated IC Chip Package for Electronic Image Sensor Die
Atmel Corporation	6577008	US	Jun 10, 2003	Metal Redistribution Layer Having Solderable Pads and Wire Bondable Pads
Atmel Corporation	6841823	US	Jan 11, 2005	Self-Aligned Non-Volatile Memory Cell
Atmel Corporation	6879518	US	Apr 12, 2005	Embedded Memory with Security Row Lock Protection
Atmel Corporation	6596604	US	Jul 22, 2003	Method of Preventing Shift of Global Alignment Marks During Rapid Thermal Processing

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	6624029	US	Sep 23, 2003	Method of Fabricating a Self-Aligned Non-Volatile Memory Cell
Atmel Corporation	6774711	US	Aug 10, 2004	Low Power Bandgap Voltage Reference Circuit
Atmel Corporation	6608787	US	Aug 19, 2003	Single-Ended Current Sense Amplifier
Atmel Corporation	6624027	US	Sep 23, 2003	Ultra Small Thin Windows in Floating Gate Transistors Defined by Lost Nitride Spacers
Atmel Corporation	6766439	US	Jul 20, 2004	Apparatus and Method for Dynamic Program Decompression
Atmel Corporation	7295671	US	Nov 13, 2007	Advanced Encryption Standard Hardware Cryptographic Engine
Atmel Corporation	6828212	US	Dec 7, 2004	A Method of Forming Shallow Trench Isolation Structure in a Semiconductor Device
Atmel Corporation	6690059	US	Feb 10, 2004	Nanocrystal Electron Device
Atmel Corporation	6744291	US	Jun 1, 2004	Power-On Reset Circuit
Atmel Corporation	6792065	US	Sep 14, 2004	Method for Counting Beyond Endurance Limitations of Non-Volatile Memories
Atmel Corporation	6794927	US	Sep 21, 2004	Modular Charge Pump Architecture
Atmel Corporation	6804148	US	Oct 12, 2004	A Flash Memory Architecture With Page Mode Erase Using NMOS and PMOS Row Decoding Scheme
Atmel Corporation	6828834	US	Dec 7, 2004	Power-on Management for Voltage Down-Converter
Atmel Corporation	6831325	US	Dec 14, 2004	Multi-Level Memory Cell With Lateral Floating Spacers
Atmel Corporation	6724241	US	Apr 20, 2004	Variable Charge Pump Circuit with Dynamic Load

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	6709990	US	Mar 23, 2004	A Method for Fabrication of a High Capacitance Interpoly Dielectric
Atmel Corporation	6753713	US	Jun 22, 2004	System and Method for Expanding a Pulse Width
Atmel Corporation	7080440	US	Jul 25, 2006	Very Low Moisture O-Ring and Method for Preparing the Same
Atmel Corporation	6919242	US	Jul 19, 2005	Mirror Image Memory Cell Transistor Pairs Featuring Poly Floating Spacers
Atmel Corporation	6917235	US	Jul 12, 2005	Low Voltage Circuit for Interfacing with High Voltage Analog Signals
Atmel Corporation	6793144	US	Sep 21, 2004	Means for Communicating With USB Smart Cards Using Full-Speed or High- Speed Transfers
Atmel Corporation	6765433	US	Jul 20, 2004	Low Power Implementation For Input Signals of Integrated Circuits
Atmel Corporation	7406100	US	Jul 29, 2008	Bi-Directional Single Wire Interface
Atmel Corporation	RE40507	US	Sep 16, 2008	Method of Forming Pre- Metal Dielectric Film on a Semiconductor Substrate Including First Layer of Undoped Oxide of High Ozone:Teos Volume Ratio and Second Layer of Low Ozone Doped BPSG
Atmel Corporation	6859391	US	Feb 2, 2005	EEPROM Architecture and Programming Protocol
Atmel Corporation	7436232	US	Oct 14, 2008	Regenerative Clock Repeater
Atmel Corporation	6768333	US	Jul 27, 2004	Test Circuit for Input-to-Output Speed Measurement
Atmel Corporation	6906576	US	Jun 14, 2005	A High Precision Digital-to-Analog Converter With

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
				Optimized Power Consumption
Atmel Corporation	6891917	US	May 10, 2005	Shift Register with Reduced Area and Power Consumption
Atmel Corporation	6815992	US	Nov 9, 2004	Circuit for Testing and Fine Tuning Integrated Circuit (Switch Control Circuit)
Atmel Corporation	6856557	US	Feb 15, 2005	Signal Integrity Checking Circuit
Atmel Corporation	7181650	US	Feb 20, 2007	Fault Tolerant Data Storage Circuit
Atmel Corporation	7082490	US	Jul 25, 2006	Method and System for Enhancing the Endurance of Memory Cells
Atmel Corporation	7340366	US	Mar 4, 2008	Method and Apparatus of Temperature Compensation for Integrated Circuit Chip Using On-Chip Sensor and Computation Means
Atmel Corporation	7037786	US	May 2, 2006	Method of forming a low voltage gate oxide layer and tunnel oxide layer in an EEPROM cell
Atmel Corporation	6905926	US	Jun 14, 2005	Method of Making Nonvolatile Transistor Pairs with Shared Control Gate
Atmel Corporation	7064434	US	Jun 20, 2006	Customized Microelectronic Device and Method for Making Customized Electrical Interconnections
Atmel Corporation	7082481	US	Jul 25, 2006	Serial Peripheral Interface (SPI) Apparatus with Write Buffer For Improving Data Throughput
Atmel Corporation	7071748	US	Jul 4, 2006	Charge Pump Clock for Non-Volatile Memories
Atmel Corporation	6026421	US	Feb 15, 2000	Apparatus for Multiprecision Integer Arithmetic

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	6269383	US	Jul 31, 2001	Apparatus for Integer Arithmetic
Atmel Corporation	6272451	US	Aug 7, 2001	Software Tool to Allow Field Programmable System Level Devices
Atmel Corporation	7232732	US	Jun 19, 2007	Semiconductor Device with a Torroidal-Like Juntion
Atmel Corporation	8107577	US	Jan 31, 2012	Communication Protocol Method and Apparatus for a Single Wire Device
Atmel Corporation	8861666	US	Oct 14, 2014	Communication Protocol Method And Apparatus For A Single Wire Device
Atmel Corporation	7881415	US	Feb 1, 2011	Communication Protocol Method and Apparatus for a Single Wire Device
Atmel Corporation	7046076	US	May 16, 2006	High Efficiency, Low Cost, Charge Pump Circuit
Atmel Corporation	7044147	US	May 16, 2006	System, Apparatus and Method for Contaminant Reduction in Semiconductor Device Fabrication Equipment Components
Atmel Corporation	7093091	US	Aug 15, 2006	Selectable Block Protection for Non-Volatile Memory
Atmel Corporation	6940759	US	Sep 6, 2005	Group Erasing System for Flash Array with Multiple Sectors
Atmel Corporation	6930925	US	Aug 16, 2005	Suspend-Resume Programming Method for Flash Memory
Atmel Corporation	7283011	US	Oct 16, 2007	Method for Performing Dual Phase Pulse Modulation
Atmel Corporation	7103110	US	Sep 5, 2006	Dual Phase Pulse Modulation Encoder Circuit
Atmel Corporation	6947493	US	Sep 20, 2005	Dual Phase Pulse Modulation Decoder Circuit

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	6927612	US	Aug 9, 2005	Current Starved DAC-Controlled Delay Locked Loop
Atmel Corporation	7233185	US	Jun 19, 2007	Vernier Circuit for Fine Control of Sample Time
Atmel Corporation	8193846	US	Jun 5, 2012	Selectable Delay Pulse Generator
Atmel Corporation	7157958	US	Jan 2, 2007	Reduced Voltage Pre- charge Multiplexer
Atmel Corporation	7260151	US	Aug 21, 2007	Dual Phase Pulse Modulation System
Atmel Corporation	7777281	US	Aug 17, 2010	Non-Volatile Transistor Memory Array Incorporating Read-Only Elements with Single Mask Set
Atmel Corporation	7308516	US	Dec 11, 2007	Bi-Directional Serial Interface for Communication Control
Atmel Corporation	6846709	US	Jan 25, 2005	Vertical Gate CMOS with Lithography Independent Gate Length
Atmel Corporation	8468281	US	Jun 18, 2013	Apparatus to Improve Bandwidth for Circuits Having Multiple Memory Controllers
Atmel Corporation	6963188	US	Nov 8, 2005	On-Chip Power Supply Interface with Load Independent Current Demand
Atmel Corporation	6998884	US	Feb 14, 2006	Circuit for Auto-Clamping Input Pins to a Definite Voltage During Power-Up or Reset
Atmel Corporation	7158415	US	Jan 2, 2007	System for Performing Fast Testing During Flash Reference Cell Settings
Atmel Corporation	6989608	US	Jan 24, 2006	Method and Apparatus to Eliminate Galvanic Corrosion on Copper Doped Aluminum Bond Pads on Integrated Circuits

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	6998670	US	Feb 14, 2006	Twin EEPROM Memory Transistors With Subsurface Stepped Floating Gates
Atmel Corporation	7227399	US	Jun 5, 2007	Detector of Differential Threshold Voltage
Atmel Corporation	6875648	US	Apr 5, 2005	Fabrication of an EEPROM Cell With Emitter-Polysilicon Source/Drain Regions
Atmel Corporation	7144775	US	Dec 5, 2006	Low-Voltage Single-Layer Polysilicon EEPROM Memory Cell
Atmel Corporation	7053591	US	May 30, 2006	Power Conversion Device With Efficient Output Current Sensing
Atmel Corporation	7183801	US	Feb 27, 2007	Programmable Logic Auto Write-Back
Atmel Corporation	7180331	US	Feb 20, 2007	Voltage Tolerant Structure for I/O Cells
Atmel Corporation	7079577	US	Jul 18, 2006	Wide Window Decoder Circuit for Dual Phase Pulse Modulation
Atmel Corporation	7437540	US	Oct 14, 2008	Dual Processor Complex Domain Floating-Point DSP System on Chip
Atmel Corporation	7078792	US	Jul 18, 2006	Universal Interconnect Die
Atmel Corporation	7323765	US	Jan 29, 2008	Die Attach Paddle for Mounting Integrated Circuit Die
Atmel Corporation	7126860	US	Oct 24, 2006	Read-Accessible Column Latch for Non-Volatile Memories
Atmel Corporation	7151701	US	Dec 19, 2006	Self-Adaptive Program Delay Circuitry for Programmable Memories
Atmel Corporation	7808300	US	Oct 5, 2010	Power Regulation Scheme for a High Voltage Output in Integrated Circuit Devices

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	7180779	US	Feb 20, 2007	Memory Architecture with Enhanced Over-Erase Tolerant Control Gate Scheme
Atmel Corporation	7102950	US	Sep 5, 2006	Fuse Data Storage System Using Core Memory
Atmel Corporation	7328299	US	Feb 5, 2008	Interface for Compressed Data Transfer Between Host Systems and Parallel Data Processing System
Atmel Corporation	7295485	US	Nov 13, 2007	Memory Architecture with Advanced Main-Bitline Partitioning Circuitry for Enhanced Erase/Program/Verify Operations
Atmel Corporation	7180126	US	Feb 20, 2007	Multi-Level Memory Cell With Lateral Floating Spacers
Atmel Corporation	7183180	US	Feb 27, 2007	Method for Simultaneous Fabrication of a Nanocrystal and Non-Nanocrystal Device
Atmel Corporation	7020020	US	Mar 28, 2006	Low Voltage Non-Volatile Memory Cells Using Twin Bit Line Current Sensing
Atmel Corporation	7105364	US	Sep 12, 2006	Method of Increased Reliability of Packaged Semiconductor Integrated Circuit Dice
Atmel Corporation	7301197	US	Nov 27, 2007	Non-Volatile Nanocrystal Memory Transistors Using Low Voltage Impact Ionization
Atmel Corporation	7478224	US	Jan 13, 2009	Microprocessor Access of Operand Stack as a Register File Using Native Instructions
Atmel Corporation	7169660	US	Jan 30, 2007	Lithography-Independent Fabrication of Small Openings
Atmel Corporation	7256094	US	Aug 14, 2007	Method for Changing Threshold Voltage of Device in Resist Asher

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	7126432	US	Oct 24, 2006	Multi-Phase Realigned Voltage Controlled Oscillator and Phase- Locked Loop Incorporating the Same
Atmel Corporation	7348256	US	Mar 25, 2008	Methods of Forming Reduced Electric Field DMOS Using Self-Aligned Trench Isolation
Atmel Corporation	7640398	US	Dec 29, 2009	High Speed Interface for High-Density Flash With Two Levels of Pipelined Cache
Atmel Corporation	7877566	US	Jan 25, 2011	Simultaneous Pipelined Read with Multiple Level Cache For Improved System Performance Using Flash Technology
Atmel Corporation	7636797	US	Dec 22, 2009	LPC Configuration Sharing Method
Atmel Corporation	7176112	US	Feb 13, 2007	Non-Thermal Annealing with Electromagnetic Radiation in the Terahertz Range of Doped Semiconductor Material
Atmel Corporation	7274284	US	Sep 25, 2007	Method for RF Card Detection in a Contactless System
Atmel Corporation	7868660	US	Jan 11, 2011	Serial Communications Bus with Active Pullup
Atmel Corporation	7208795	US	Apr 24, 2007	Low Cost, Low-Voltage Single-Layer Polycrystalline EEPROM Memory Cell Integration Into BICMOS Technology
Atmel Corporation	7405546	US	Jul 29, 2008	Standard CMOS Low-Noise High-PSRR Low Drop-Out Regulator with New Dynamic Compensation
Atmel Corporation	7407851	US	Aug 5, 2008	DMOS Device with Sealed Channel Processing
Atmel Corporation	7890721	US	Feb 15, 2011	Implementation of Integrated Status of a Protection Register Word in a Protection Register Array

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	7230342	US	Jun 12, 2007	Registration Mark Within An Overlap of Dopant Regions
Atmel Corporation	7330375	US	Feb 12, 2008	Sense Amplifier Circuit for Parallel Sensing of Four Current Levels
Atmel Corporation	7257046	US	Aug 14, 2007	Memory Data Access Scheme
Atmel Corporation	7751248	US	Jul 6, 2010	Indirect Measurement of Negative Margin Voltages in Endurance Testing of EEPROM Cells
Atmel Corporation	7336540	US	Feb 26, 2008	Indirect Measurement of Negative Margin Voltages in Endurance Testing of EEPROM Cells
Atmel Corporation	7099202	US	Aug 29, 2006	Y-Mux Splitting Scheme
Atmel Corporation	7466613	US	Dec 16, 2008	Sense Amplifier for Flash Memory Device
Atmel Corporation	7335943	US	Feb 26, 2008	Ultrascalable Vertical MOS Transistor with Planar Contacts
Atmel Corporation	7183734	US	Feb 27, 2007	Sensorless Control of Two-Phase Brushless DC Motor
Atmel Corporation	7317630	US	Jan 8, 2008	Nonvolatile Semiconductor Memory Apparatus
Atmel Corporation	7256445	US	Aug 14, 2007	Fabrication of an EEPROM Cell With Emitter-Polysilicon Source/Drain Regions
Atmel Corporation	7224635	US	May 29, 2007	Fast Read Port for Register File
Atmel Corporation	7435661	US	Oct 14, 2008	Polish Stop and Sealing Layer for Manufacture of Semiconductor Devices with Deep Trench Isolation
Atmel Corporation	7907002	US	Mar 15, 2011	Output Level Voltage Regulation
Atmel Corporation	8555041	US	Oct 8, 2013	Method for Performing a Return Operation in Parallel with Setting Status Flags

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
				Based on a Return Value Register Test
Atmel Corporation	7243210	US	Jul 10, 2007	Extracted-Index Addressing of Byte-Addressable Memories
Atmel Corporation	7817719	US	Oct 19, 2010	System for Increasing the Speed of a Sum-of- Absolute- Differences Operation
Atmel Corporation	7996659	US	Aug 9, 2011	Microprocessor Instruction that Allows System Routine Calls and Returns from All Contexts
Atmel Corporation	7689640	US	Mar 30, 2010	Method and Apparatus for Formatting Numbers in Microprocessors
Atmel Corporation	7259612	US	Aug 21, 2007	Efficient Charge Pump for a Wide Range of Supply Voltages
Atmel Corporation	7629649	US	Dec 8, 2009	Method and Materials to Control Doping Profile in Integrated Circuit Substrate Material
Atmel Corporation	7049880	US	May 23, 2006	A High Precision Digital-to-Analog Converter With Optimized Power Consumption
Atmel Corporation	7348626	US	Mar 25, 2008	Method of Making Nonvolatile Transistor Pairs with Shared Control Gate
Atmel Corporation	7301832	US	Nov 27, 2007	Compact Column Redundancy CAM Architecture for Concurrent Read and Write Operations in Multi-Segment Memory Arrays
Atmel Corporation	8099783	US	Jan 17, 2012	Security Method for Data Protection
Atmel Corporation	RE40486E	US	Sep 9, 2008	Self-Aligned Non-Volatile Memory Cell

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	7341911	US	Mar 11, 2008	Fowler-Nordheim Block Alterable EEPROM Memory Cell
Atmel Corporation	8378414	US	Feb 19, 2013	Low Leakage FinFETs
Atmel Corporation	7848151	US	Dec 7, 2010	Circuit to Control Voltage Ramp Rate
Atmel Corporation	7512008	US	Mar 31, 2009	Circuit to Control Voltage Ramp Rate
Atmel Corporation	7233528	US	Jun 19, 2007	Reduction of Programming Time in Electrically Programmable Devices
Atmel Corporation	7180795	US	Feb 20, 2007	Method of Sensing an EEPROM Reference Cell
Atmel Corporation	7341916	US	Mar 11, 2008	Self-Aligned Nanometer- Level Transistor Defined Without Lithography
Atmel Corporation	7353300	US	Apr 1, 2008	Method and Apparatus to Improve the Firmware Efficiency for Multiframe Serial Interface
Atmel Corporation	7728635	US	Jun 1, 2010	High Voltage Tolerant Port Driver
Atmel Corporation	7336109	US	Feb 26, 2008	High Voltage Tolerant Port Driver
Atmel Corporation	7580291	US	Aug 25, 2009	Data Register with Efficient Erase, Program Verify and Direct Bit-Line Memory Access Features
Atmel Corporation	7971024	US	Jun 28, 2011	Off-Chip Micro Control and Interface in a Multichip Integrated Memory System
Atmel Corporation	7478213	US	Jan 13, 2009	Off-Chip Micro Control and Interface in a Multichip Integrated Memory System
Atmel Corporation	7612421	US	Nov 3, 2009	Electronic Device with Dopant Diffusion Barrier and Tunable Work Function and Methods of Making Same

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	8860195	US	Oct 14, 2014	Apparatus and Method for Increasing the Quantity of Discrete Electronic Components in an Integrated Circuit Package
Atmel Corporation	9012308	US	Apr 21, 2015	Integrated Circuit Structures Containing a Strain-Compensated Compound Semiconductor Layer and Methods and Systems Related Thereto
Atmel Corporation	8530934	US	Sep 10, 2013	Integrated Circuit Structures Containing a Strain-Compensated Compound Semiconductor Layer and Methods and Systems Related Thereto
Atmel Corporation	7327030	US	Feb 5, 2008	Apparatus and Method Incorporating Discrete Passive Components in an Electronic Package
Atmel Corporation	7169692	US	Jan 30, 2007	Method and Apparatus to Eliminate Galvanic Corrosion on Copper Doped Aluminum Bond Pads on Integrated Circuits
Atmel Corporation	7554151	US	Jun 30, 2009	Low Voltage Non-Volatile Memory Cell with Electrically Transparent Control Gate
Atmel Corporation	7236043	US	Jun 26, 2007	Antifuse Programming, Protection, and Sensing Device
Atmel Corporation	7304878	US	Dec 4, 2007	Autonomous Antifuse Cell
Atmel Corporation	7339832	US	Mar 4, 2008	Array Source Line (AVSS) Controlled High Voltage Regulation for Programming Flash or EE Array
Atmel Corporation	7487287	US	Feb 3, 2009	Time Efficient Embedded EEPROM Processor Control Method

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	7295046	US	Nov 13, 2007	Power Down Detection Circuit
Atmel Corporation	7437616	US	Oct 14, 2008	Dual CPU On-Chip-Debug Low-Gate-Count Architecture with Real-Time- Data-Tracing
Atmel Corporation	7916532	US	Mar 29, 2011	Use of Recovery Transistors During Write Operations to Prevent Disturbance of Unselected Cells
Atmel Corporation	7295466	US	Nov 13, 2007	Use of Recovery Transistors During Write Operations to Prevent Disturbance of Unselected Cells
Atmel Corporation	7304890	US	Dec 4, 2007	Double Byte Select High Voltage Line for EEPROM Memory Block
Atmel Corporation	7752427	US	Jul 6, 2010	Stack Underflow Debug With Sticky Base
Atmel Corporation	7402482	US	Jul 22, 2008	Non-Volatile Transitor Memory Array Incorporating Read-Only Elements with Single Mask Set
Atmel Corporation	7224610	US	May 29, 2007	Layout Reduction by Sharing a Column Latch Per Two Bit Lines
Atmel Corporation	7245555	US	Jul 17, 2007	Automatic Address Transition Detection (ATD) Control for Reduction of Sense Amplifier Power Consumption
Atmel Corporation	8545636	US	Oct 1, 2013	Conductivity Control of Water Content in Solvent Strip Baths
Atmel Corporation	8316017	US	Nov 20, 2012	Apparatus and Method for the Detection of and Recovery from Inappropriate Bus Access in Microcontroller Circuits
Atmel Corporation	8224883	US	Jul 17, 2012	Packed Add-Subtract Operation in a Microprocessor
Atmel Corporation	7555514	US	Jun 30, 2009	Packed Add-Subtract Operation in a Microprocessor

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	7633800	US	Dec 15, 2009	Redundancy Scheme in Memory
Atmel Corporation	7253057	US	Aug 7, 2007	Memory Cell with Reduced Size and Standby Current
Atmel Corporation	7327171	US	Feb 5, 2008	Charge Pump Clock for Non-Volatile Memories
Atmel Corporation	7325114	US	Jan 29, 2008	Selectable Block Protection for Non-Volatile Memory
Atmel Corporation	7275128	US	Sep 25, 2007	Selectable Block Protection for Non-Volatile Memory
Atmel Corporation	7550954	US	Jun 23, 2009	Method and Circuit for a Voltage Supply for Real Time Clock Circuitry Based on Voltage Regulated Charge Pump
Atmel Corporation	7981796	US	Jul 19, 2011	Methods for Forming Packaged Products
Atmel Corporation	7339439	US	Mar 4, 2008	Voltage-Controlled Oscillator with Multi-Phase Realignment of Asymmetric Stages
Atmel Corporation	7710105	US	May 4, 2010	Circuit Reset Testing Methods
Atmel Corporation	7540298	US	Jun 2, 2009	System, Apparatus and Method for Contaminant Reduction in Semiconductor Device Fabrication Equipment Components
Atmel Corporation	7240848	US	Jul 10, 2007	Three Port RF Interface Chip
Atmel Corporation	7352203	US	Apr 1, 2008	A Method to Reduce Power in Active Shield Circuits that Use Complimentary Traces
Atmel Corporation	8278150	US	Oct 2, 2012	Stackable Packages for Three-Dimensional Packaging of Semiconductor Dice
Atmel Corporation	7816769	US	Oct 19, 2010	Stackable Packages for Three-Dimensional Packaging of Semiconductor Dice
Atmel Corporation	8264075	US	Sep 11, 2012	Stacked-Die Package Including Substrate-Ground Coupling

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	7838971	US	Nov 23, 2010	Method to Provide Substrate-Ground Coupling for Semiconductor Integrated Circuit Dice Constructed from SOI and Related Materials in Stacked-Die Packages
Atmel Corporation	7180276	US	Feb 20, 2007	Dual Stage Voltage Regulation Circuit
Atmel Corporation	7352640	US	Apr 1, 2008	High-Speed, Self-Synchronized Current Sense Amplifier
Atmel Corporation	7271031	US	Sep 18, 2007	Universal Interconnect Die
Atmel Corporation	7768219	US	Aug 3, 2010	Microcontroller Interface with Hall Element
Atmel Corporation	7420349	US	Sep 2, 2008	Microcontroller Interface with Hall Element
Atmel Corporation	7982499	US	Jul 19, 2011	Capacitive Node Isolation for Electostatic Discharge Circuit
Atmel Corporation	7369446	US	May 6, 2008	Method and Apparatus to Prevent High Voltage Supply Degradation for High-Voltage Latches of a Non-Volatile Memory
Atmel Corporation	8258599	US	Sep 4, 2012	An Electronics Package with an Integrated Circuit Device Having Post Wafer Fabrication Integrated Passive Components
Atmel Corporation	8324023	US	Dec 4, 2012	A Stacked-Die Electronics Package with Planar and Three-Dimensional Inductor Elements
Atmel Corporation	7932590	US	Apr 26, 2011	Stacked-Die Electronics Package with Planar and Three-Dimensional Inductor Elements
Atmel Corporation	7863959	US	Jan 4, 2011	Apparatus and Methods For a High-Voltage Latch

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	7767473	US	Aug 3, 2010	Multiple Die Wafers Having Increased Reliability and Methods of Increasing Reliability in Same (as Amended)
Atmel Corporation	7452733	US	Nov 18, 2008	Method of Increasing Reliability of Packaged Semiconductor Integrated Circuit Dice
Atmel Corporation	7257668	US	Aug 14, 2007	Method and System for Enhancing the Endurance of Memory Cells
Atmel Corporation	7423912	US	Sep 9, 2008	SONOS Memory Array with Improved Read Disturb Characteristic
Atmel Corporation	7301794	US	Nov 27, 2007	Non-Volatile Memory Array with Simultaneous Write and Erase Feature
Atmel Corporation	7684245	US	Mar 23, 2010	Non-Volatile Memory Array Architecture with Joined Word Lines
Atmel Corporation	7453725	US	Nov 18, 2008	Apparatus for Eliminating Leakage Current of a Low Vt Device in a Column Latch
Atmel Corporation	7439567	US	Oct 21, 2008	Contactless Nonvolatile Memory Array
Atmel Corporation	7776705	US	Aug 17, 2010	Method for Fabricating a Thick Copper Line and Copper Inductor Resulting Therefrom
Atmel Corporation	7589572	US	Sep 15, 2009	Method and Device for Managing a Power Supply Power-On Sequence
Atmel Corporation	7447071	US	Nov 4, 2008	Low Voltage Column Decoder Sharing a Memory Array P-well
Atmel Corporation	7671642	US	Mar 2, 2010	Amplitude Controlled Sawtooth Generator
Atmel Corporation	7495250	US	Feb 24, 2009	Integrated Circuit Structures Having a Boron- and Carbon-

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
				Doped Etch-Stop and Methods, Devices and System Related Thereto
Atmel Corporation	8173526	US	May 8, 2012	Method for Providing a Nanoscale, High Electron Mobility Transistor (HEMT) on Insulator
Atmel Corporation	7550758	US	Jun 23, 2009	Method for Providing a Nanoscale, High Electron Mobility Transistor (HEMT) on Insulator
Atmel Corporation	8022548	US	Sep 20, 2011	Method for Fabricating Conducting Plates for a High-Q MIM Capacitor
Atmel Corporation	7601604	US	Oct 13, 2009	Method for Fabricating Conducting Plates for a High-Q MIM Capacitor
Atmel Corporation	7408812	US	Aug 5, 2008	Low-Voltage Single-Layer Polysilicon EEPROM Memory Cell
Atmel Corporation	7338875	US	Mar 4, 2008	Semiconductor Device with a Torroidal-Like Juntion
Atmel Corporation	7391081	US	Jun 24, 2008	Method for Simultaneous Fabrication of a Nanocrystal and Non-Nanocrystal Device
Atmel Corporation	8429814	US	Apr 30, 2013	Method of Assembling a Multi-Component Electronic Package
Atmel Corporation	7427890	US	Sep 23, 2008	Charge Pump Regulator with Multiple Control Option
Atmel Corporation	7564137	US	Jul 21, 2009	Stackable Integrated Circuit Structures and Systems Devices and Methods Related Thereto
Atmel Corporation	7927918	US	Apr 19, 2011	Packaged Products, Including Stacked Package Modules, and Methods of Forming Same
Atmel Corporation	7471132	US	Dec 30, 2008	Reduced Voltage Pre- charge Multiplexer

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	8044526	US	Oct 25, 2011	Integrated Circuit Assemblies With Alignment Features and Devices and Methods Related Thereto
Atmel Corporation	7336110	US	Feb 26, 2008	Differential Amplitude Controlled Sawtooth Generator
Atmel Corporation	7636264	US	Dec 22, 2009	Single-Ended Sense Ampligier for Very Low Voltage Applications
Atmel Corporation	7656219	US	Feb 2, 2010	Unity Gain Voltage Buffer with Dual-Supply Voltage for Managing Current Consumption in Low Voltage Applications
Atmel Corporation	8166280	US	Apr 24, 2012	Microprocessor for Executive Byte Compiled Java Code
Atmel Corporation	8533433	US	Sep 10, 2013	Microprocessor for Executing Byte Compiled Java Code
Atmel Corporation	7917732	US	Mar 29, 2011	Microprocessor for Executing Byte Compiled Java Code
Atmel Corporation	8190950	US	May 29, 2012	Dynamic Column Redundancy Replacement
Atmel Corporation	7782240	US	Aug 24, 2010	Device and Method of Supplying Power to Targets on Single-Wire Interface
Atmel Corporation	7515469	US	Apr 7, 2009	Column Redundancy RAM for Dynamic BIT replacement in Flash Memory
Atmel Corporation	7990666	US	Aug 2, 2011	Threshold Voltage Method and Apparatus for ESD Protection
Atmel Corporation	7760476	US	Jul 20, 2010	Threshold Voltage Method and Apparatus for ESD Protection
Atmel Corporation	7569458	US	Aug 4, 2009	Non-Thermally Annealed Doped Semiconductor Material and Methods Related Thereto

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	7642872	US	Jan 5, 2010	Low Cost and Low Variation Oscillator
Atmel Corporation	7679430	US	Mar 16, 2010	Low Voltage Charge Pump
Atmel Corporation	7446596	US	Nov 4, 2008	Low Voltage Charge Pump
Atmel Corporation	7990224	US	Aug 2, 2011	Dual Reference Phase Tracking Phase-Locked Loop
Atmel Corporation	7304904	US	Dec 4, 2007	Fast Read Port for Register File
Atmel Corporation	7397723	US	Jul 8, 2008	Fast Read Port for Register File
Atmel Corporation	7692453	US	Apr 6, 2010	Detector of Differential Threshold Voltage
Atmel Corporation	7606058	US	Oct 20, 2009	Autonomous Antifuse Cell
Atmel Corporation	7678618	US	Mar 16, 2010	Methods for Using Die Attach Paddle For Mounting Integrated Circuit Die
Atmel Corporation	7638862	US	Dec 29, 2009	Die Attach Paddle for Mounting Integrated Circuit Die
Atmel Corporation	7656708	US	Feb 2, 2010	Memory Architecture with Advanced Main-Bitline Partitioning Circuitry for Enhanced Erase/Program/Verify Operations
Atmel Corporation	7751256	US	Jul 6, 2010	Method and Apparatus to Prevent High Voltage Supply Degradation for High-Voltage Latches of a Non-Volatile Memory
Atmel Corporation	7710814	US	May 4, 2010	Fast Read Port for Register File
Atmel Corporation	8568822	US	Oct 29, 2013	Apparatus and Method Incorporating Discrete Passive Components in an Electronic Package
Atmel Corporation	7800419	US	Sep 21, 2010	Differential Amplitude Controlled Sawtooth Generator
Atmel Corporation	7460411	US	Dec 2, 2008	Array Source Line (AVSS) Controlled High Voltage

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
				Regulation for Programming Flash or EE Array
Atmel Corporation	7622944	US	Nov 24, 2009	A Method to Reduce Power in Active Shielf Circuits that Use Complimentary Traces
Atmel Corporation	7437584	US	Oct 14, 2008	Apparatus and Method for Reducing Power Consumption in Electronic Devices
Atmel Corporation	7323856	US	Jan 29, 2008	Start Up CMOS Circuit for Bandgap Voltage Reference Generator without Quiescent Current
Atmel Corporation	7208929	US	Apr 24, 2007	Power Efficient Startup Circuit for Activating a Bandgap Reference Circuit
Atmel Corporation	7652455	US	Jan 26, 2010	Low Dropout Voltage Regulator with a Voltage Slew Rate Efficient Transient Response Boost Circuit
Atmel Corporation	7199565	US	Apr 3, 2007	Low Dropout Voltage Regulator with a Voltage Slew Rate Efficient Transient Response Boost Circuit
Atmel Corporation	7365585	US	Apr 29, 2008	Apparatus and Method for Charge Pump Slew Rate Control
Atmel Corporation	7456678	US	Nov 25, 2008	Apparatus and Method for Providing a Temperature Compensated Reference Current
Atmel Corporation	7983098	US	Jul 19, 2011	Adaptive Regulator for Idle State in a Charge Pump Circuit of a Memory Device
Atmel Corporation	7599231	US	Oct 6, 2009	Adaptive Regulator for Idle State in a Charge Pump Circuit of a Memory Device
Atmel Corporation	7446690	US	Nov 4, 2008	Analog-to-Digital Converter Implementation Programmable Logic Device

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	7855671	US	Dec 21, 2010	Pipelined Analog-to-Digital Converter Having a Power Optimized Programmable Data Rate
Atmel Corporation	7382307	US	Jun 3, 2008	Pipelined Analog-to-Digital Converter having a Power Optimized Programmable Data Rate
Atmel Corporation	7920436	US	Apr 5, 2011	Sense Amplifier
Atmel Corporation	7652612	US	Jan 26, 2010	Cyclic Pipeline Analog-to-Digital Converter
Atmel Corporation	6359810	US	Mar 19, 2002	Page Mode Erase in Flash Memory Array
Atmel Corporation	6166959	US	Dec 26, 2000	Flash Memory Array with Internal Refresh
Atmel Corporation	6959091	US	Oct 25, 2005	Cryptography Private Key Storage and Recovery Method and Apparatus
Atmel Corporation	6771200	US	Aug 3, 2004	A New DAC Approach for Flash Memory
Atmel Corporation	6954102	US	Oct 11, 2005	A Fast Dynamic Mirror Sense Amplifier with Different Comparison, Equalization and Evaluation Paths
Atmel Corporation	7084699	US	Aug 1, 2006	A Fast Dynamic Low Voltage Mirror with Compensated Error
Atmel Corporation	7236050	US	Jun 26, 2007	A Fast Dynamic Low Voltage Mirror with Compensated Error
Atmel Corporation	7242242	US	Jul 10, 2007	A Fast Dynamic Low Voltage Mirror with Compensated Error
Atmel Corporation	6873551	US	Mar 29, 2005	An Apparatus and Method for a Configurable Mirror Fast Sense Amplifier
Atmel Corporation	6734701	US	May 11, 2004	A Fast Controlled Output Buffer

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	6809575	US	Oct 26, 2004	A New Temperature Compensated Current Reference
Atmel Corporation	6831499	US	Dec 14, 2004	A New Negative Pump with Optimized Bulk Biasing
Atmel Corporation	6785183	US	Aug 31, 2004	A System for Controlling the Stand-By to Active and Active to Stand-By Transitions of a VCC Regulator for a Flash Memory Device
Atmel Corporation	7173405	US	Feb 6, 2007	Method and Circuit for Current Limitation in Low Drop Out Voltage Regulators
Atmel Corporation	7173405	US	Feb 6, 2007	Method and Circuit for Current Limitation in Low Drop Out Voltage Regulators
Atmel Corporation	7224155	US	May 29, 2007	Method and Circuit for Current Limitation in Low Drop Out Voltage Regulators
Atmel Corporation	6954866	US	Oct 11, 2005	Method and Apparatus for Smoothing the Current Consumption of a Digital Logic Module in an Integrated Circuit
Atmel Corporation	7661011	US	Feb 9, 2010	Method and Apparatus for a Variable Processing Period in an Integrated Circuit
Atmel Corporation	5822245	US	Oct 13, 1998	Dual Buffer Flash Memory Architecture with Multiple Operating Modes
Atmel Corporation	5898605	US	Apr 27, 1999	Apparatus and Method for Simplified Analog Signal Record and Playback
Atmel Corporation	5991519	US	Nov 23, 1999	Secure Memory Having Multiple Security Levels
Atmel Corporation	6094724	US	Jul 25, 2000	Secure Memory Having Anti-Wire Tapping
Atmel Corporation	6118705	US	Sep 12, 2000	Page Mode Erase in a Flash Memory Array

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	6088268	US	Jul 11, 2000	Flash Memory Array with Internal Refresh
Atmel Corporation	7162003	US	Jan 9, 2007	Method and Apparatus for Driving Multiple Peripherals with Different Clock Frequencies in an Integrated Circuit
Atmel Corporation	7450429	US	Nov 11, 2008	Method and Apparatus for a Dual Power Supply to Embedded Non-Volatile Memory
Atmel Corporation	7120061	US	Oct 10, 2006	Method and Apparatus for a Dual Power Supply to Embedded Non-Volatile Memory
Atmel Corporation	7269704	US	Sep 11, 2007	Method and Apparatus for Reducing System Inactivity During the Time Data Float Delay and External Write.
Atmel Corporation	7551016	US	Jun 23, 2009	Programmable Clock Generator Apparatus, Systems and Methods
Atmel Corporation	8015229	US	Sep 6, 2011	Apparatus And Method For Performing Efficient Multiply-Accumulate Operations in Microprocessors
Atmel Corporation	7145318	US	Dec 5, 2006	Negative Voltage Regulator
Atmel Corporation	7279961	US	Oct 9, 2007	Charge Pump for Intermediate Voltage
Atmel Corporation	7307898	US	Dec 11, 2007	Method and Apparatus for Implementing Walkout of Device Junctions
Atmel Corporation	7304514	US	Dec 4, 2007	Method and Circuits for Sensing On-Chip Voltage In Powerup Mode
Atmel Corporation	7679987	US	Mar 16, 2010	Clock Circuity for DDR- SDRAM Memory Controller
Atmel Corporation	7423928	US	Sep 9, 2008	Clock Circuitry for DDR-SDRAM Memory Controller

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	7433262	US	Oct 7, 2008	Circuits to Delay a Signal from a Memory Device
Atmel Corporation	7701802	US	Apr 20, 2010	Circuits to Delay a Signal from a Memory Device
Atmel Corporation	7669072	US	Feb 23, 2010	Clock Circuitry Architecture to Improve Electro-Magnetic Compatibility and Optimize Peak of Currents in Micro-Controller
Atmel Corporation	7519486	US	Apr 14, 2009	Method and Apparatus to Test the Power-on-Reset Trip Point of an Integrated Circuit
Atmel Corporation	8572298	US	Oct 29, 2013	Architecture to Connect Circuitry Between Customizable and Predefined Logic Areas
Atmel Corporation	7739539	US	Jun 15, 2010	Read-Data Stage Circuitry for DDR-SDRAM Memory Controller
Atmel Corporation	7864583	US	Jan 4, 2011	Erase Verify for Memory Devices
Atmel Corporation	7414891	US	Aug 19, 2008	New Erase Verify Method for NAND Type Flash Memories
Atmel Corporation	7882405	US	Feb 1, 2011	Embedded Architecture With Serial Interface for Testing Flash Memories
Atmel Corporation	7522002	US	Apr 21, 2009	Biasing Current to Speed Up Current Mirror Settling Time
Atmel Corporation	7579902	US	Aug 25, 2009	Charge Pump for Generation of Multiple Output-Voltage Levels
Atmel Corporation	7769943	US	Aug 3, 2010	Flexible, Low-Cost Apparatus and Method to Introduce and Check Algorithm Modifications in Non-Volatile Memory
Atmel Corporation	7525856	US	Apr 28, 2009	Method to Manage External Voltages for Semiconductor Memory Testing With Serial Interface

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	8102401	US	Jan 24, 2012	Display Controller Operating Mode Using Multiple Data Buffers
Atmel Corporation	7689758	US	Mar 30, 2010	Dual Bus Matrix Architecture for Micro- Controllers
Atmel Corporation	7907110	US	Mar 15, 2011	Display Controller Blinking Mode Circuitry for LCD Panel of Twisted Nematic Type
Atmel Corporation	7853845	US	Dec 14, 2010	Circuit and Method for Integrated Circuit Configuration
Atmel Corporation	7692483	US	Apr 6, 2010	Apparatus and Method for Preventing Snap Back in Integrated Circuits
Atmel Corporation	8131789	US	Mar 6, 2012	True Random Number Generator
Atmel Corporation	7826291	US	Nov 2, 2010	Precharge and Evaluation Phase Circuits for Sense Amplifiers
Atmel Corporation	5821149	US	Oct 13, 1998	Method of fabricating a heterobipolar transistor
Atmel Corporation	5892435	US	Apr 6, 1999	Triggering process for passive safety devices in vehicles
Atmel Corporation	6115659	US	Sep 5, 2000	Triggering process for passive safety devices in vehicles
Atmel Corporation	5944826	US	Aug 31, 1999	Integrated Circuit Layout Complete with a Bus Logic Unit Connected to a Data Bus with Power Reduction Circuitry
Atmel Corporation	5973513	US	Oct 26, 1999	Integrated circuit arrangement with an open-collector transistor designed as npn transistor
Atmel Corporation	6070130	US	May 30, 2000	Method for Testing a Large Quantity of Products
Atmel Corporation	6480099	US	Nov 12, 2002	Modulation Method for Data Transmission From a

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
				Transponder to a Read- Write Device
Atmel Corporation	5805061	US	Sep 8, 1998	Electronic Flasher Unit for Vehicle Lighting System and Method of Monitoring the Operation Thereof
Atmel Corporation	6289055	US	Sep 11, 2001	Method for Transmitting Digital Signals
Atmel Corporation	6154077	US	Nov 28, 2000	Bistable flip-flop
Atmel Corporation	6028512	US	Feb 22, 2000	Electronic Blinker
Atmel Corporation	6366164	US	Apr 2, 2002	Integrated Circuit Layout for LF Signal Acquisition in the Case of Contactless Data Transmission
Atmel Corporation	6569773	US	May 27, 2003	Method for anisotropic plasma - chemical dry etching of silicon nitride layers using a gas mixture containing fluorine
Atmel Corporation	9094430	US	Jul 28, 2015	Method for Identifying Smart Meters in a Smart Grid
Atmel Corporation	8279007	US	Oct 2, 2012	Switch for Use in a Programmable Gain Amplifier
Atmel Corporation	8933816	US	Jan 13, 2015	Systems and Method for Communication with a Smart Power Meter Over Optical Fiber
Atmel Corporation	7447980	US	Nov 4, 2008	Error Detection and Correction in Data Transmission Packets
Atmel Corporation	7950042	US	May 24, 2011	Fast Switching Between Time Division Multiplexed (TDM) Channels
Atmel Corporation	7378911	US	May 27, 2008	Wideband Ultra Low Noise Amplifier
Atmel Corporation	7546110	US	Jun 9, 2009	Low Power Highly Linear RF Downconverter

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	8731504	US	May 20, 2014	A System and Method for Performing RF Filtering
Atmel Corporation	7676207	US	Mar 9, 2010	System and Method for Digital Autonomous Automatic Gain Control (AGC) for DVB-H Receivers
Atmel Corporation	8655153	US	Feb 18, 2014	System and Method for Television Programming Data Management
Atmel Corporation	7889976	US	Feb 15, 2011	System and Method for Television Programming Data Management
Atmel Corporation	8000395	US	Aug 16, 2011	System and Method for Statistical Multiplexing of Video Channels for DVB-H Mobile TV Applications
Atmel Corporation	7352238	US	Apr 1, 2008	DB-Linear Analog Variable Gain Amplifier (VGA) Realization System and Method
Atmel Corporation	7599441	US	Oct 6, 2009	Low Complexity Soft-Input Viterbi Decoding For Digital Communication Systems
Atmel Corporation	7424062	US	Sep 9, 2008	An Efficient Doppler Compensation Method and Receiver for Orthogonal-Frequency-Division-Multiplexing (OFDM) Systems
Atmel Corporation	7707611	US	Apr 27, 2010	RECEIVER WITH A VISUAL PROGRAM GUIDE FOR MOBILE TELEVISION APPLICATIONS AND METHOD FOR CREATION
Atmel Corporation	7365607	US	Apr 29, 2008	LOW-POWER, LOW- JITTER, FRACTIONAL-N ALL-DIGITAL PHASE- LOCKED LOOP (PLL)
Atmel Corporation	7348839	US	Mar 25, 2008	METHOD AND APPARATUS FOR DC OFFSET CANCELLATION IN AMPLIFIERS

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	7729462	US	Jun 1, 2010	FAST RE- SYNCHRONIZATION TECHNIQUES FOR DVB-H SYSTEMS
Atmel Corporation	8811457	US	Aug 19, 2014	Physical Layer Aware Video Encoding For Mobile TV Applications
Atmel Corporation	8199796	US	Jun 12, 2012	PHYSICAL LAYER AWARE VIDEO ENCODING FOR MOBILE TV APPLICATIONS
Atmel Corporation	7729463	US	Jun 1, 2010	HOST PROCESSOR ASSISTED FAST RE- SYNCHRONIZATION TECHNIQUES FOR DVB-H SYSTEMS
Atmel Corporation	7778316	US	Aug 17, 2010	DETECTING CHANNEL IMPULSE MAGNITUDE RESPONSE IN DIGITAL COMMUNICATION SYSTEMS
Atmel Corporation	7697644	US	Apr 13, 2010	Stepped Automatic Gain Control for OFDM Systems
Atmel Corporation	8059655	US	Nov 15, 2011	Unified Interfacing for DVB-T/H Mobile TV Applications
Atmel Corporation	8238972	US	Aug 7, 2012	Device, System, and Method for Providing Wireless Data Access, Digital TV Access, Radio, and Storage Capability
Atmel Corporation	7890845	US	Feb 15, 2011	Integrated MPE-FEC RAM for DVB-H Receivers
Atmel Corporation	7796600	US	Sep 14, 2010	COMPACT MPE-FEC ERASURE LOCATION CACHE MEMORY FOR DVB-H RECEIVER
Atmel Corporation	RE44551	US	Oct 22, 2013	Universal Tuner for Mobile TV
Atmel Corporation	7711334	US	May 4, 2010	HIGH LINEARITY, LOW NOISE FIGURE, FRONT END CIRCUIT WITH FINE STEP GAIN
Atmel Corporation	7592863	US	Sep 22, 2009	Optimized Gain Filtering and Amplification with Noise Shaping

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	7710857	US	May 4, 2010	Coherent Detection for Differentially Encoded OFDM Systems
Atmel Corporation	7894331	US	Feb 22, 2011	Adaptive Technique for Inter-Carrier-Interference Canceling in OFDM Systems
Atmel Corporation	7711031	US	May 4, 2010	Adaptive Technique for Inter-Carrier-Interference Canceling in OFDM Systems
Atmel Corporation	7940759	US	May 10, 2011	Robust Technique for Frame Synchronization in DAB-IP Systems
Atmel Corporation	7729435	US	Jun 1, 2010	Null Detection in DAB, T-DMB, and DAB-IP Systems
Atmel Corporation	7782982	US	Aug 24, 2010	Adaptive Deinterleaver Memory Allocation
Atmel Corporation	7728550	US	Jun 1, 2010	Integrated CMOS DC-DC Converter Implementation in Low-Voltage CMOS Technology Using LDO Regulator
Atmel Corporation	7592791	US	Sep 22, 2009	High Efficiency DC-DC Converter Using Pulse Skipping Modulation with Programmable Burst Duration
Atmel Corporation	7592870	US	Sep 22, 2009	Low Noise, Low Power, High Linearity Differential Amplifier with a Capacitive Input Impedance
Atmel Corporation	7940867	US	May 10, 2011	Scattered Pilot Correlation in DVB-H Systems
Atmel Corporation	7940868	US	May 10, 2011	Scattered Pilot Correlation in DVB-H Systems
Atmel Corporation	7899140	US	Mar 1, 2011	Scattered Pilot Correlation in DVB-H Systems
Atmel Corporation	8259029	US	Sep 4, 2012	Implementation of Diversity Antennas in Small Portable Media Devices and Cell Phones

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	8693579	US	Apr 8, 2014	Switchable DVB-H Receiver
Atmel Corporation	7821916	US	Oct 26, 2010	Timing and Frequency Acquisition for Mediaflo Systems
Atmel Corporation	7940865	US	May 10, 2011	Re-Acquisition of Symbol Index in the Presence of Sleep Timer Errors for Mobile Multimedia Multicast Systems
Atmel Corporation	7907637	US	Mar 15, 2011	Fast Acquisition in Mobile Multimedia Multicast Systems
Atmel Corporation	8599933	US	Dec 3, 2013	Robust PID Filtering for DVB-H
Atmel Corporation	8787145	US	Jul 22, 2014	Area and Power Efficient Architectures of Time Deinterleaver for Receivers
Atmel Corporation	8358573	US	Jan 22, 2013	Area and Power Efficient Architectures of Time Deinterleaver for Receivers
Atmel Corporation	7764595	US	Jul 27, 2010	Area and Power Efficient Architectures of Time Deinterleaver for Receivers
Atmel Corporation	7912142	US	Mar 22, 2011	Double Layer Maximum Ratio Combining for OFDM Receiver Design with Inter- Carrier-Interference Cancelling
Atmel Corporation	7889803	US	Feb 15, 2011	Time and Frequency Domain Based Approaches for Fine Timing and Frequency Estimations
Atmel Corporation	7751309	US	Jul 6, 2010	WIC and LIC Estimation in Mediaflo Systems
Atmel Corporation	7945746	US	May 17, 2011	Memory Sharing of Time and Frequency De- Interleaver for ISDB-T Receivers
Atmel Corporation	8103944	US	Jan 24, 2012	Memory Architecture for High Throughput RS Decoding for Mediaflo Receivers
Atmel Corporation	8750194	US	Jun 10, 2014	Interleaver Address Generation in Turbo Decoders for Mobile Multimedia

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
				Multicast Communication Systems
Atmel Corporation	8102791	US	Jan 24, 2012	Interleaver Address Generation in Turbo Decoders for Mobile Multimedia Multicast Communication Systems
Atmel Corporation	7855996	US	Dec 21, 2010	Enhanced Stream Layer Transmission for Mediaflo Mobile Multimedia Multicast System
Atmel Corporation	8159929	US	Apr 17, 2012	Low Complexity High Performance TMCC Acquisition in ISDB-T and ISDB-TSB Receivers
Atmel Corporation	7626527	US	Dec 1, 2009	Continuous Time Sigma- Delta Analog-to-Digital Converter with Stability
Atmel Corporation	8169546	US	May 1, 2012	Technique for Tuner Automatic Gain Control Circuit for Mobile Television
Atmel Corporation	7941117	US	May 10, 2011	Digital Approach for Image Rejection Correction in Low Intermediate Frequency Conversion Tuner
Atmel Corporation	RE44624	US	Dec 3, 2013	Symmetric Pilot Processing for Robust Timing Offset and Frequency Offset Estimations in Receivers
Atmel Corporation	8065596	US	Nov 22, 2011	ITERATIVE DECODING FOR LAYER CODED OFDM COMMUNICATION SYSTEMS
Atmel Corporation	RE44622	US	Dec 3, 2013	Coarse Carrier Frequency Offset Estimator for a Receiver
Atmel Corporation	7804846	US	Sep 28, 2010	ROBUST DEFRAMING OF MAC LAYER PACKETS FOR MOBILE MULTIMEDIA MULTICAST SYSTEM

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	8165230	US	Apr 24, 2012	DOPPLER FREQUENCY ESTIMATION IN WIRELESS COMMUNICATION SYSTEMS
Atmel Corporation	7907683	US	Mar 15, 2011	APPLICATION OF SUPERFAST ALGORITHMS TO A PILOT-BASED CHANNEL ESTIMATION PROCESS
Atmel Corporation	7940864	US	May 10, 2011	CHANNEL ESTIMATION FOR HIGH DOPPLER MOBILE ENVIRONMENTS
Atmel Corporation	7970083	US	Jun 28, 2011	ESTIMATING DOPPLER FREQUENCY IN ISDB-T SYSTEMS
Atmel Corporation	8230462	US	Jul 24, 2012	FAST CHANNEL SWITCHING FOR ENCRYPTED MOBILE MULTIMEDIA MULTICAST SYSTEM
Atmel Corporation	8086940	US	Dec 27, 2011	ITERATIVE DECODING BETWEEN TURBO AND RS DECODERS FOR IMPROVING BIT ERROR RATE AND PACKET ERROR RATE
Atmel Corporation	7855959	US	Dec 21, 2010	FAST COMMON OVERHEAD SERVICES ACQUISITION FOR MEDIAFLO
Atmel Corporation	8077659	US	Dec 13, 2011	METHOD AND APPARATUS FOR LOCATING MOBILE MULTIMEDIA MULTICAST SYSTEM CAPABLE WIRELESS DEVICES
Atmel Corporation	7782903	US	Aug 24, 2010	HARDWARD ACCELERATED PROTOCOL STACK
Atmel Corporation	RE44776	US	Feb 25, 2014	Robust Fine Frequency and Time Estimation in Mobile Receivers
Atmel Corporation	7822039	US	Oct 26, 2010	LOOK-UP TABLE BASED APPROACH FOR LAYER COMBINING IN ISDB-T AND ISDB-TSB RECEIVERS

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	8036291	US	Oct 11, 2011	TIME DOMAIN BASED APPROACH FOR FAST FADING CHANNEL FFT TRIGGER POINT TRACKING IN ISDB RECEIVERS
Atmel Corporation	8064553	US	Nov 22, 2011	COARSE FREQUENCY OFFSET ESTIMATION IN ISDB RECEIVERS
Atmel Corporation	8073064	US	Dec 6, 2011	ROBUST FFT TRIGGER POINT TRACKING FOR ECHO CHANNELS IN OFDM BASED COMMUNICATION SYSTEMS
Atmel Corporation	7915928	US	Mar 29, 2011	HIGH LINEARITY VOLTAGE TO CURRENT CONVERSION
Atmel Corporation	7619472	US	Nov 17, 2009	NOISE-SHAPED BLOCKER-REJECT AMPLIFIER
Atmel Corporation	8005990	US	Aug 23, 2011	EFFICIENT DECODING OF MOBILE MULTIMEDIA MULTICAST SYSTEM NON REAL-TIME SERVICE FILES
Atmel Corporation	7974364	US	Jul 5, 2011	DOPPLER FREQUENCY ESTIMATION AND ADAPTATION FOR MOBILE MULTIMEDIA MULTICAST SYSTEMS
Atmel Corporation	8077736	US	Dec 13, 2011	FAST AUDIO/VISUAL RECEPTION IN DVB-H SYSTEMS
Atmel Corporation	7970070	US	Jun 28, 2011	ADAPTIVE FREQUENCY DOMAIN EQUALIZATION IN OFDM BASED COMMUNICATION SYSTEM
Atmel Corporation	8036292	US	Oct 11, 2011	SEGMENTED-FRAME SYNCHRONIZATION FOR ISDB-T AND ISBD-TSB RECEIVER
Atmel Corporation	8005449	US	Aug 23, 2011	Subsampling Wideband RSSI Circuit
Atmel Corporation	8041327	US	Oct 18, 2011	WIDEBAND RESISTIVE INPUT MIXER WITH NOISE-CANCELLED IMPEDANCE

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	8005173	US	Aug 23, 2011	COARSE FREQUENCY OFFSET ESTIMATION FOR DIGITAL MULTIMEDIA BROADCASTING
Atmel Corporation	9059642	US	Jun 16, 2015	Digitally Controlled Spur Management Technique For Integrated DC-DC Converters
Atmel Corporation	8340195	US	Dec 25, 2012	Buffer Size Reduction for Wireless Analog TV Receivers
Atmel Corporation	8264611	US	Sep 11, 2012	System and Method for Video Downscaling
Atmel Corporation	8675137	US	Mar 18, 2014	Apparatus and Method for Adaptive Filtering
Atmel Corporation	8305498	US	Nov 6, 2012	Apparatus and Method for Equalizing Analog TV Signals
Atmel Corporation	8212923	US	Jul 3, 2012	SECAM Line Identification and PAL Switch
Atmel Corporation	8212942	US	Jul 3, 2012	All Digital Front-End Architecture for Television with Sigma-Delta ADC Input
Atmel Corporation	8305492	US	Nov 6, 2012	Dual Burst Locked Oscillator Architecture for an Analog Television Receiver
Atmel Corporation	8306493	US	Nov 6, 2012	Pilot Based Adaptation for FM Radio Receiver
Atmel Corporation	8233534	US	Jul 31, 2012	FRAME BUFFER COMPRESSION AND MEMORY ALLOCATION IN A VIDEO DECODER
Atmel Corporation	8306343	US	Nov 6, 2012	Optimized Prediction Based Image Compression
Atmel Corporation	8659706	US	Feb 25, 2014	Multi-Chip Antenna Diversity Picture-in-Picture Architecture
Atmel Corporation	8482675	US	Jul 9, 2013	Multi-Chip Antenna Diversity Picture-in-Picture Architecture
Atmel Corporation	8681908	US	Mar 25, 2014	Low Power, Multi-Chip Diversity Architecture

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	8594256	US	Nov 26, 2013	Low Power, Multi-Chip Diversity Architecture
Atmel Corporation	8196087	US	Jun 5, 2012	Chip Area Optimized Pads
Atmel Corporation	8115553	US	Feb 14, 2012	High Linearity, Low Noise, Wide Bandwidth, Amplifier/Buffer
Atmel Corporation	8779861	US	Jul 15, 2014	Multi-Phase Voltage Controlled Oscillator Using Capacitance Degenerated Single Ended Transconductance Stage and Inductance/Capacitance Load
Atmel Corporation	8654490	US	Feb 18, 2014	High Voltage Electrostatic Discharge Clamp Using Deep Submicron CMOS Technology
Atmel Corporation	9445454	US	Sep 13, 2016	System and Method for Hardware Sharing
Atmel Corporation	9246851	US	Jan 26, 2016	Wireless Memory Management
Atmel Corporation	9544813	US	Jan 10, 2017	Coexistence Of Interfering Wireless Signals
Atmel Corporation	8725202	US	May 13, 2014	Single Transceiver for Wireless Peer-to-Peer Connections
Atmel Corporation	5877639	US	Mar 2, 1999	Generator of Electronic Duration and Frequency Programmable Pulses
Atmel Corporation	5939910	US	Aug 17, 1999	Digital Device for Initializing an Integrated Circuit
Atmel Corporation	6114875	US	Sep 5, 2000	Analog level conversion circuit
Atmel Corporation	6111432	US	Aug 29, 2000	Symmetric Adapter Unit for Switching a Logic Signal
Atmel Corporation	5998983	US	Dec 7, 1999	Reference DC voltage generating apparatus
Atmel Corporation	7290927	US	Nov 6, 2007	Method and Device for Convolutive Encoding and Transmission by Packets of a Digital Data Series Flow, and

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
				Corresponding Decoding Method and Device
Atmel Corporation	6683914	US	Jan 27, 2004	Digital word transmission convolution coding technique having steps defining value and convolution code depth packet stream applying and symbol concatenation.
Atmel Corporation	6414617	US	Jul 2, 2002	Digital-to-Analogue Converter
Atmel Corporation	6346903	US	Feb 12, 2002	Controlled Analogue Driver System
Atmel Corporation	6746881	US	Jun 8, 2004	Method and Device for Controlling the Thickness of a Layer of an Integrated Circuit in Real Time
Atmel Corporation	6483729	US	Nov 19, 2002	Master-Slave Power Feeding for Serial Connection Links
Atmel Corporation	6650175	US	Nov 18, 2003	Precise reference voltage generating device
Atmel Corporation	7173798	US	Feb 6, 2007	DCDC Voltage Converter Overload Detector and Corresponding Component and Device
Atmel Corporation	6803751	US	Oct 12, 2004	Power Supply Controller for Electronic Circuits, Components and Corresponding Devices
Atmel Corporation	6930538	US	Aug 16, 2005	Reference Voltage Source Temperature Sensor, Temperature Threshold Detector, Chip and Corresponding System
Atmel Corporation	7138854	US	Nov 21, 2006	Integrated circuit for universal serial bus links, has power transistor connecting supply voltage to circuit output, and transistor limiting output voltage according to reference voltage to provide preset output voltage

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	7352275	US	Apr 1, 2008	Dispositif de comparaison de deux mots de n bits chacun
Atmel Corporation	7359436	US	Apr 15, 2008	Method for Automatic Detection of the Data Rate in a Network, Particularly a CAN bus Type Network, and for Configuration to the Detected Data rate, Corresponding Device
Atmel Corporation	7234643	US	Jun 26, 2007	Microelectronic circuit for activating or deactivating at least one input/output, corresponding chip card reader and method of deactivating
Atmel Corporation	7151811	US	Dec 19, 2006	Electric Circuit for Decoding a Two-Phase Asynchronous Data Signal and Corresponding Decoding Method, Device for Controlling Equipment
Atmel Corporation	7411913	US	Aug 12, 2008	Process for automatically detecting the throughput of a network, particularly of a CAN Bus type and for configuring with the detected throughput by transition analysis, and corresponding device
Atmel Corporation	7218167	US	May 15, 2007	Device for the generation of an improved reference voltage and corresponding integrated circuit
Atmel Corporation	7353417	US	Apr 1, 2008	Microcontroller with Synchronized Analog to Digital Converter
Atmel Corporation	7564936	US	Jul 21, 2009	Process and Electronic Decoding Circuit for a Diphase Asynchronous frame whose length is not known in advance, corresponding application, computer

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
				programme and storage means
Atmel Corporation	7525294	US	Apr 28, 2009	High Voltage Regulator System Compatible with Low-Voltage Technologies and Corresponding Electronic Circuit
Atmel Corporation	7312644	US	Dec 25, 2007	Power Failure Detection Circuit with Fast Drop Response
Atmel Corporation	7598819	US	Oct 6, 2009	RC type differential voltage controlled oscillator for phase locked loop, has four differential pairs, each comprising four PMOS type transistors, where transistors of four differential pairs are included in single case
Atmel Corporation	7375506	US	May 20, 2008	A comparison device for a input signal with a reference signal and correspondant electronic circuit.
Atmel Corporation	7389373	US	Jun 17, 2008	Dispositif d'arbitrage asynchrone et microcontrôleur comprenant un tel dispositif d'arbitrage
Atmel Corporation	7639091	US	Dec 29, 2009	Device for Generation of a Reference Frequency and Corresponding Electronic Circuit
Atmel Corporation	7518345	US	Apr 14, 2009	DC-DC converter
Atmel Corporation	7511541	US	Mar 31, 2009	Electronic device for controlling an external load, in which the output signal slope is independent from the capacity of the external load, and corresponding integrated component
Atmel Corporation	8239429	US	Aug 7, 2012	Output Buffer Receiving First and Second Input Signals and Outputting an Output Signal,

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
				and Corresponding Electronic Circuit
Atmel Corporation	7741797	US	Jun 22, 2010	Method Of Managing Transitions In A Three- Phase BLDC Motor And Corresponding Device
Atmel Corporation	7576678	US	Aug 18, 2009	Successive-Approximation Analog-to-Digital Converter, Integrated Circuit Comprising Such Analog-to- Digital Converter, and Corresponding Method
Atmel Corporation	9036613	US	May 19, 2015	Method and apparatus for operating a wireless PAN network using an overlay protocol that enhances co-existence with a wireless LAN network
Atmel Corporation	8891497	US	Nov 18, 2014	Method and Apparatus for Coordinating a Wireless PAN Network and a Wireless LAN network
Atmel Corporation	8929350	US	Jan 6, 2015	Method and Apparatus for Coordinating a Wireless PAN Network and a Wireless LAN Network
Atmel Corporation	8571005	US	Oct 29, 2013	Method and Apparatus for Synchronization of a Master Timebase with One or More Slave Timebases Using Indirect Signalling of Timing Information
Atmel Corporation	8724615	US	May 13, 2014	Method And Apparatus For Synchronization of A Master Timebase of A Computing Device With One Or More Slave Timebases Using Indirect Signalling Of Timing Information
Atmel Corporation	9191907	US	Nov 17, 2015	Method and Apparatus for Iterative Synchronization of

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
				Two or More Electronic Devices
Atmel Corporation	8634341	US	Jan 21, 2014	Method and Apparatus for Iterative Synchronization of Two or More Electronic Devices
Atmel Corporation	8102871	US	Jan 24, 2012	Method and apparatus for medium reservation and medium reservation modification in a communication system
Atmel Corporation	8089982	US	Jan 3, 2012	Method and apparatus for medium reservation and medium reservation modification in a communication system with medium reservation modification granted without requiring additional medium arbitration
Atmel Corporation	9198115	US	Nov 24, 2015	Method and Apparatus For Scanning And Device Detection In A Communication System
Atmel Corporation	8848730	US	Sep 30, 2014	Method and Apparatus for Scanning and Device Detection in a Communication System
Atmel Corporation	9160587	US	Oct 13, 2015	Channel Tracking in an Orthogonal Frequency-Division Multiplexing System
Atmel Corporation	8675744	US	Mar 18, 2014	Channel Tracking in an Orthogonal Frequency-Division Multiplexing System
Atmel Corporation	7701271	US	Apr 20, 2010	High linearity charge pump method and apparatus
Atmel Corporation	9052739	US	Jun 9, 2015	Method And Apparatus For Virtualizing Hardware Dongle Over A Wireless Connection

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	9244871	US	Jan 26, 2016	Method and Apparatus for Virtualizing Hardware Dongle Over a Wireless Connection
Atmel Corporation	8438319	US	May 7, 2013	Method and Apparatus for Virtualizing Hardware Dongle Over a Wireless Connection
Atmel Corporation	7583944	US	Sep 1, 2009	Demodulation and Regulation Concept for IR Receivers
Atmel Corporation	8284030	US	Oct 9, 2012	Method and Device for Recognizing Functional States in RFID or Remote Sensor Systems
Atmel Corporation	8111672	US	Feb 7, 2012	Method for Data Communication Between a Base Station and a Transponder
Atmel Corporation	7158010	US	Jan 2, 2007	Circuit arrangement and method for phase modulation in a backscattering transponder
Atmel Corporation	7009256	US	Mar 7, 2006	Semiconductor over-voltage protection structure for integrated circuit and for diode
Atmel Corporation	8552837	US	Oct 8, 2013	Data Transmission Method and Apparatus in RFID and Remote Sensor Systems
Atmel Corporation	7598782	US	Oct 6, 2009	Circuit for changing a frequency
Atmel Corporation	7705420	US	Apr 27, 2010	Method for Producing a Conductor Path on a Substrate, and a Component Having a Conductor Path Fabricated in Accordance with Such a Method
Atmel Corporation	7053747	US	May 30, 2006	Method for producing a spiral inductance on a substrate, and a device fabricated according to such a method

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	7307497	US	Dec 11, 2007	Method for Producing a Coplanar Waveguide System on a Substrate, and a Component for the Transmission of Electromagnetic Wave Fabricated in Accordance with Such a Method
Atmel Corporation	7986653	US	Jul 26, 2011	Wireless Data Transmission Between Base Station and Transponder with Transmission Parameter Adjusted Based on Transponder Operating Information
Atmel Corporation	7609147	US	Oct 27, 2009	Method and Apparatus for Improving Wireless Data Transmission
Atmel Corporation	7286029	US	Oct 23, 2007	Passive devices formed in grooves on a substrate and a method of manufacture
Atmel Corporation	6870461	US	Mar 22, 2005	Integrated Receiving/Backscattering Arrangement for Contactless Data Transmission
Atmel Corporation	7418164	US	Aug 26, 2008	Method for forming a photonic band-gap structure and a device fabricated in accordance with such a method
Atmel Corporation	7116140	US	Oct 3, 2006	Circuit Arrangement for Recognizing and Outputting Control Signals, Integrated Circuit Including the Same and Use Thereof
Atmel Corporation	7397109	US	Jul 8, 2008	Method for integration of three bipolar transistors in a semiconductor body, multilayer component, and semiconductor arrangement

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	7336154	US	Feb 26, 2008	Method for Selecting One or Several Transponders
Atmel Corporation	7312692	US	Dec 25, 2007	Method for Selecting One or Several Transponders
Atmel Corporation	7619252	US	Nov 17, 2009	Integrated Circuit Having a Predefined Dielectric Strength
Atmel Corporation	7345513	US	Mar 18, 2008	Driver circuit with automatic offset compensation of an amplifier and method for offset compensation of an amplifier of a driver circuit
Atmel Corporation	7154340	US	Dec 26, 2006	Circuit for increasing the unity gain crossover frequency of an amplifier element
Atmel Corporation	8638195	US	Jan 28, 2014	Method for Selecting One or More Transponders
Atmel Corporation	7616050	US	Nov 10, 2009	Power Supply Circuit for Producing a Reference Current with a Prescribable Temperature Dependance
Atmel Corporation	7538437	US	May 26, 2009	Infrared Receiver Chip
Atmel Corporation	7313950	US	Jan 1, 2008	Integrated Multisensor
Atmel Corporation	7893815	US	Feb 22, 2011	Method for Selecting One or Several Transponders
Atmel Corporation	7660336	US	Feb 9, 2010	Method and device for determining an activation threshold
Atmel Corporation	7317307	US	Jan 8, 2008	Circuit Arrangement for Load Regulation In The Receive Path of a Transponder
Atmel Corporation	7746231	US	Jun 29, 2010	Circuit arrangement for load regulation in the receive path of a transponder
Atmel Corporation	8553674	US	Oct 8, 2013	Method for Wireless Data Transmission
Atmel Corporation	9197341	US	Nov 24, 2015	Method, Apparatus, and Logic for Wireless Data Transmission

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	7733217	US	Jun 8, 2010	Method for Data Transmission in RFID or Remote Sensor Sytems
Atmel Corporation	7601584	US	Oct 13, 2009	Semiconductor Array and Method for Manufacturing a Semiconductor Array
Atmel Corporation	8274370	US	Sep 25, 2012	Modulator and Modulation Method for a Wireless Data Transmission Device
Atmel Corporation	7321300	US	Jan 22, 2008	Security device for a transponder
Atmel Corporation	7084640	US	Aug 1, 2006	Operating and Evaluation Circuit of an Insect Sensor
Atmel Corporation	7319368	US	Jan 15, 2008	Method and Circuit Arrangement for Load Modulation in a Combination Comprised of a Transmitting and a Receiving Oscillator Circuit
Atmel Corporation	8045950	US	Oct 25, 2011	Mixer Circuit, Receiving Circuit, Transmitting Circuit, and Method for Operating a Mixer Circuit
Atmel Corporation	7075464	US	Jul 11, 2006	circuit for current measurement and current monitoring
Atmel Corporation	7626427	US	Dec 1, 2009	Voltage comparator
Atmel Corporation	8054162	US	Nov 8, 2011	Communication Method in RFID or Remote Sensor Systems
Atmel Corporation	8477017	US	Jul 2, 2013	Communication Method in RFID or Remote Sensor Systems
Atmel Corporation	7352051	US	Apr 1, 2008	Cascode, cascode circuit and method for vertical integration of two bipolar transistors into a cascode arrangement

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	7378919	US	May 27, 2008	Planar microwave line with a directional change
Atmel Corporation	7320922	US	Jan 22, 2008	Integrated circuit and method for manufacturing an integrated circuit on a chip
Atmel Corporation	7396739	US	Jul 8, 2008	Method for integrating an electronic component or similar into a substrate
Atmel Corporation	8233252	US	Jul 31, 2012	ESD Protection Circuit for Low Voltages
Atmel Corporation	8013716	US	Sep 6, 2011	Method for wireless data transmission
Atmel Corporation	8643472	US	Feb 4, 2014	Locating a Backscatter- Based Transponder
Atmel Corporation	7768948	US	Aug 3, 2010	Method and Device for Data Transmission
Atmel Corporation	7414477	US	Aug 19, 2008	Distributed amplifier topologies with improved gain bandwidth product
Atmel Corporation	7605450	US	Oct 20, 2009	High Frequency Arrangement
Atmel Corporation	8107513	US	Jan 31, 2012	Differential Detection Unit for the Zigbee 802.15.4 Standard
Atmel Corporation	8477829	US	Jul 2, 2013	Differential Detection in a Communication System
Atmel Corporation	8223888	US	Jul 17, 2012	Method and Receiving Unit for the Detection of Data Symbols
Atmel Corporation	8526540	US	Sep 3, 2013	Method and Receiving Unit for the Detection of Data Symbols
Atmel Corporation	7796707	US	Sep 14, 2010	Device for converting a complex-valued bandpass signal into a digital baseband signal
Atmel Corporation	7633996	US	Dec 15, 2009	Method and device for determining the occupancy of a transmission channel

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	7633328	US	Dec 15, 2009	Mixer stage and method for mixing two signals having different frequencies
Atmel Corporation	7352224	US	Apr 1, 2008	PULSE GENERATOR AND METHOD FOR GENERATING A PULSE TRAIN
Atmel Corporation	7459368	US	Dec 2, 2008	Method for Manufacturing Integrated Circuits Having Silicon-Germanium Heterobipolar Transistors
Atmel Corporation	7605047	US	Oct 20, 2009	Method for the Integration of Two Bipolar Transistors in a Semiconductor Body, Semiconductor Arrangement in a Semiconductor Bbody, and Cascode Circuit
Atmel Corporation	7279969	US	Oct 9, 2007	Signal Amplification Method and Amplifier Array
Atmel Corporation	7596365	US	Sep 29, 2009	Device for transmitting and receiving
Atmel Corporation	7574184	US	Aug 11, 2009	Method and device for detecting occupation by a signal of an adjacent channel
Atmel Corporation	7535362	US	May 19, 2009	circuit arrangement and method for supplying power to a transponder
Atmel Corporation	7702488	US	Apr 20, 2010	Measuring Device for Capacitive Pressure Measurement
Atmel Corporation	7740465	US	Jun 22, 2010	Casting mold for producing an optical semiconductor module
Atmel Corporation	8338970	US	Dec 25, 2012	Integrated Circuit With Trimming Elements and Method
Atmel Corporation	7521756	US	Apr 21, 2009	DMOS-TRANSISTOR WITH OPTIMIZED PERIPHERY STRUCTURE
Atmel Corporation	7609098	US	Oct 27, 2009	Driver circuit for electronic components

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	8000380	US	Aug 16, 2011	Detection Unit and Method for the Detection of Data Symbols
Atmel Corporation	8265127	US	Sep 11, 2012	Detecting Data Symbols
Atmel Corporation	7737713	US	Jun 15, 2010	Apparatus for hot-probing integrated semiconductor circuits on wafers
Atmel Corporation	7385455	US	Jun 10, 2008	Monolithic Integrated Circuit with Integrated Interference Suppression Device
Atmel Corporation	7425865	US	Sep 16, 2008	Differential Cascode Amplifier
Atmel Corporation	7362147	US	Apr 22, 2008	Integrated Circuit
Atmel Corporation	7535245	US	May 19, 2009	Integrated Circuit with integrated circuit section to aid in testing
Atmel Corporation	7358713	US	Apr 15, 2008	Constant voltage source with output current limitation
Atmel Corporation	7592919	US	Sep 22, 2009	Circuit Arrangement for Use in RF Transponders and Method for Controlling a Number of Such Transponders
Atmel Corporation	7872567	US	Jan 18, 2011	Method For Transponder Access Control
Atmel Corporation	7375600	US	May 20, 2008	Integrated Quartz Oscillator Circuit
Atmel Corporation	8160184	US	Apr 17, 2012	Radio Clock and Method for Extracting Time Information
Atmel Corporation	7589545	US	Sep 15, 2009	Device for Final Inspection
Atmel Corporation	7592879	US	Sep 22, 2009	Integrated circuit having at least one integrated transmission line
Atmel Corporation	7868712	US	Jan 11, 2011	Circuit arrangement for frequency modulation
Atmel Corporation	7605617	US	Oct 20, 2009	Method for Switching a System Clock and Clock Synchronization Unit
Atmel Corporation	7535300	US	May 19, 2009	Operational Amplifier

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	7508276	US	Mar 24, 2009	Frequency modulator
Atmel Corporation	7760047	US	Jul 20, 2010	Coupling Element for Electromagnetic Coupling of at least Two Conductors of a Transmission Line
Atmel Corporation	7817768	US	Oct 19, 2010	PLL frequency generator
Atmel Corporation	7885369	US	Feb 8, 2011	PLL frequency generator
Atmel Corporation	7953146	US	May 31, 2011	Method for Wireless Data Transmission Between a Base Station and a Transponder Via Inductive Coupling
Atmel Corporation	8363737	US	Jan 29, 2013	Wireless Data Transmission Between a Base Station and a Transponder Via Inductive Coupling
Atmel Corporation	7521996	US	Apr 21, 2009	Differential Amplifier and Radio System with a Differential Amplifier
Atmel Corporation	8160253	US	Apr 17, 2012	Method, Transponder and System for Rapid Data Transmission
Atmel Corporation	8847737	US	Sep 30, 2014	Transponder and Method for Wireless Data Transmission
Atmel Corporation	7710213	US	May 4, 2010	Method for Voltage Limitation in a Transponder
Atmel Corporation	8165193	US	Apr 24, 2012	Method for Wireless Data Transmission Between a Base Station and a Passive Transponder, as well as a Passive Transponder
Atmel Corporation	8699560	US	Apr 15, 2014	Method for Wireless Data Transmission Between a Base Station and a Passive Transponder, as Well as a Passive Transponder
Atmel Corporation	7994921	US	Aug 9, 2011	Method for Wireless Data Transmission and a Transponder

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	7999659	US	Aug 16, 2011	Method for Access Control
Atmel Corporation	7692546	US	Apr 6, 2010	Antenna for a backscatter-based RFID transponder
Atmel Corporation	7795991	US	Sep 14, 2010	Integrated circuit arrangement to set a phase difference
Atmel Corporation	8138889	US	Mar 20, 2012	Method, Transponder, and System for Secure Data Exchange
Atmel Corporation	8368516	US	Feb 5, 2013	Secure Data Exchange with a Transponder
Atmel Corporation	7633359	US	Dec 15, 2009	Monolithically Integratable Circuit Arrangement
Atmel Corporation	8244786	US	Aug 14, 2012	Device and Method for Generating a Random Number
Atmel Corporation	7466202	US	Dec 16, 2008	High-Speed CMOS current mirror
Atmel Corporation	7629859	US	Dec 8, 2009	Integrated Resonance Circuit
Atmel Corporation	7633806	US	Dec 15, 2009	Memory Device with a Non-Volatile Memory Array
Atmel Corporation	8296852	US	Oct 23, 2012	Transponder, RFID System and Method for RFID System With Key Management
Atmel Corporation	7633352	US	Dec 15, 2009	Integrated tunable resonance circuit
Atmel Corporation	7796965	US	Sep 14, 2010	Method and Circuit Arrangement for Field Strength Determination and Integrated Circuit
Atmel Corporation	8525672	US	Sep 3, 2013	Passive Entry and/or Passive Go System and Associated Operating Method
Atmel Corporation	8233867	US	Jul 31, 2012	Method for Obtaining Field Strength Information
Atmel Corporation	9209759	US	Dec 8, 2015	Method for Obtaining Field Strength Information

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	7633460	US	Dec 15, 2009	Antenna for a backscatter-based RFID transponder
Atmel Corporation	7463990	US	Dec 9, 2008	Method for Adjusting an Electronic System
Atmel Corporation	7728717	US	Jun 1, 2010	Switching Regulator, Transceiver Circuit, and Keyless Access Control System
Atmel Corporation	7888952	US	Feb 15, 2011	Circuit arrangement for balancing a resistance circuit
Atmel Corporation	8183983	US	May 22, 2012	Method for the At Least Temporary Activation of Bidirectional Communication and Transponder
Atmel Corporation	7928838	US	Apr 19, 2011	Wheel electronics and tire control system for measuring a measurand
Atmel Corporation	7809348	US	Oct 5, 2010	compensation circuit for a mixer stage
Atmel Corporation	8040681	US	Oct 18, 2011	Circuit Arrangement
Atmel Corporation	7863874	US	Jan 4, 2011	Linear Voltage Regulator
Atmel Corporation	7696645	US	Apr 13, 2010	Circuit Arrangement for Voltage Switching
Atmel Corporation	7616072	US	Nov 10, 2009	Integrated circuit and Receiver of a Global Positioning Systems (GPS)
Atmel Corporation	7503775	US	Mar 17, 2009	Integrated Protection Circuit
Atmel Corporation	7518549	US	Apr 14, 2009	Circuit Arrangement for Processing Satellite Signals
Atmel Corporation	7793185	US	Sep 7, 2010	Integrated Circuit for a Data Transmission System and Receiving Device of a Data Transmission System
Atmel Corporation	7855582	US	Dec 21, 2010	Device for Detecting a Timing of an Edge
Atmel Corporation	7458271	US	Jan 23, 2008	Fluid sensor
Atmel Corporation	7683655	US	Mar 23, 2010	Integrated Circuit

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	8718545	US	May 6, 2014	Transponder and Method for Operating a Transponder
Atmel Corporation	8054911	US	Nov 8, 2011	Method for Edge Formation of Signals and Transmitter Receiver Component for a Bus System
Atmel Corporation	7747790	US	Jun 29, 2010	Integrated driver circuit for a lin bus wherein circuit is operable between an older lin bus specification or a newer lin bus specification
Atmel Corporation	8358251	US	Jan 22, 2013	Antenna for a Backscatter-Based RFID Transponder
Atmel Corporation	7612611	US	Nov 3, 2009	Amplifier Circuit
Atmel Corporation	8755466	US	Jun 17, 2014	Receiver, Receiving Method, and Use of an In- Phase Signal and a Quadrature-Phase Signal
Atmel Corporation	8619924	US	Dec 31, 2013	Electrode Circuit, Use, and Method for Controlling a Receiver Circuit
Atmel Corporation	8942324	US	Jan 27, 2015	Circuit, Use, and Method for Controlling a Receiver Circuit
Atmel Corporation	8107911	US	Jan 31, 2012	Signal Processing Device and Signal Processing Method
Atmel Corporation	7633422	US	Dec 15, 2009	Transducer Device
Atmel Corporation	8630603	US	Jan 14, 2014	Circuit and Method for Image Frequency Rejection
Atmel Corporation	9350298	US	May 24, 2016	Circuit and Method for Image Frequency Rejection
Atmel Corporation	8594259	US	Nov 26, 2013	Receiving Circuit, Use, and Method for Receiving an Encoded and Modulated Radio Signal
Atmel Corporation	9042501	US	May 26, 2015	Receiving Circuit, Use, and Method for Receiving an Encoded and Modulated Radio Signal

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	8155240	US	Apr 10, 2012	Receiver Circuit, Application of a First and a Second Proportional Element of a Digital PLL Structure, and Method for Receiving a Frequency-Shift Keyed Signal
Atmel Corporation	9317981	US	Apr 19, 2016	Method and device for protecting products against counterfeiting
Atmel Corporation	8239437	US	Aug 7, 2012	Correlation Device
Atmel Corporation	9015220	US	Apr 21, 2015	Correlation Device
Atmel Corporation	7786789	US	Aug 31, 2010	Monolithic Integrated Circuit and Use of Semiconductor Switch
Atmel Corporation	7893518	US	Feb 22, 2011	Method for generating a layout, use of a transistor layout, and semiconductor circuit
Atmel Corporation	8767877	US	Jul 1, 2014	Circuit and Method for Controlling a Receiver Circuit
Atmel Corporation	8044713	US	Oct 25, 2011	Receiving Circuit and Method for Receiving an Amplitude Shift Keying Signal
Atmel Corporation	8380137	US	Feb 19, 2013	Circuit, Process, and Use of a Memory for Transmitting and/or Receiving in a Radio Network
Atmel Corporation	8200178	US	Jun 12, 2012	Method for Obtaining Field Strength Information
Atmel Corporation	7868679	US	Jan 11, 2011	Circuit, Method for Receiving a Signal, and Use of a Random Event Generator
Atmel Corporation	8154217	US	Apr 10, 2012	Driver Circuit, Method for Operating and Use of a Current Mirror of a Driver Circuit
Atmel Corporation	7899099	US	Mar 1, 2011	Laser diver circuit and use
Atmel Corporation	8363708	US	Jan 29, 2013	Receiving circuit, method for receiving a signal, and use of a

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
				detection circuit and a control circuit
Atmel Corporation	9264128	US	Feb 16, 2016	Receiving Circuit, Method for Receiving a Signal, and Use of a Detection Circuit and a Control Circuit
Atmel Corporation	8041316	US	Oct 18, 2011	Transmission Circuit, Transmission Method, and Use
Atmel Corporation	8193792	US	Jun 5, 2012	Circuit and Method for Operating a Circuit
Atmel Corporation	8415939	US	Apr 9, 2013	Circuit and Method for Operating a Circuit
Atmel Corporation	8050295	US	Nov 1, 2011	Transmission Circuit and Method for Transmitting a Bit Sequence to be Transmitted
Atmel Corporation	8406117	US	Mar 26, 2013	Transmission Circuit and Method for Transmitting a Bit Sequence to be Transmitted
Atmel Corporation	7859435	US	Dec 28, 2010	Method for rate increase and method for rate reduction
Atmel Corporation	8266459	US	Sep 11, 2012	Supplying Voltage to Digital Subcircuits
Atmel Corporation	9075588	US	Jul 7, 2015	Voltage Regulator and Control Circuit for Supplying Voltage to a Plurality of Subcircuits via a Chain of Switches
Atmel Corporation	8340236	US	Dec 25, 2012	Circuit for a Radio System, Use and Method for Operation
Atmel Corporation	9036754	US	May 19, 2015	Circuit for a Radio System, Use and Method for Operation
Atmel Corporation	8766618	US	Jul 1, 2014	Circuit, Use, and Method for Operating a Circuit
Atmel Corporation	9385583	US	Jul 5, 2016	Circuit, Use, and Method for Operating a Circuit
Atmel Corporation	8258860	US	Sep 4, 2012	Circuit, an Adjusting Method, and Use of a Control Loop

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	8525583	US	Sep 3, 2013	Circuit, An Adjusting Method, and Use of a Control Loop
Atmel Corporation	7843252	US	Nov 30, 2010	Circuit with a Regulated Charge Pump
Atmel Corporation	8397124	US	Mar 12, 2013	Memory System, Sense Amplifier, Use, and Method for Error Detection by Means of Parity Bits of a Block Code
Atmel Corporation	8306489	US	Nov 6, 2012	Circuit For A Loop Antenna and Method for Tuning
Atmel Corporation	8831553	US	Sep 9, 2014	Receiver and Method for Operating a Receiver
Atmel Corporation	8837647	US	Sep 16, 2014	Antenna Amplifier, Receiving System, Operating Method, and Use of a Receiving System
Atmel Corporation	8009710	US	Aug 30, 2011	Laser Driver Circuit, Method for Controlling a Laser Driver Circuit, and Use
Atmel Corporation	8004353	US	Aug 23, 2011	Circuit
Atmel Corporation	8832474	US	Sep 9, 2014	Slave Circuit of a Lin Bus and Method for Operation
Atmel Corporation	8406144	US	Mar 26, 2013	Circuit, System an Method for Communication Between Two Nodes of a Radio Network
Atmel Corporation	8755300	US	Jun 17, 2014	Circuit, System an Method for Communication Between Two Nodes of a Radio Network
Atmel Corporation	9479952	US	Oct 25, 2016	Circuit, System an Method for Communication Between Two Nodes of a Radio Network
Atmel Corporation	8644768	US	Feb 4, 2014	System, Method and Switch for Distance Measurement Between Two Nodes of a Radio Network
Atmel Corporation	8965301	US	Feb 24, 2015	System, Method and Switch for Distance Measurement Between Two Nodes of a Radio Network

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	8405543	US	Mar 26, 2013	Circuit and Method for Distance Measurement Between Two Nodes of a Radio Network
Atmel Corporation	9274218	US	Mar 1, 2016	Circuit and Method for Distance Measurement Between Two Nodes of a Radio Network
Atmel Corporation	8101900	US	Jan 24, 2012	Circuit and Method for Operating a Circuit
Atmel Corporation	8030963	US	Oct 4, 2011	Integrated Circuit and Standard Cell for an Integrated Circuit
Atmel Corporation	9239370	US	Jan 19, 2016	Circuit of a Node and Method for Transit Time Measurement in a Radio Network
Atmel Corporation	8615012	US	Dec 24, 2013	Circuit and Method for Operating a Circuit of a Node of a Radio Network
Atmel Corporation	9326260	US	Apr 26, 2016	Circuit and Method for Operating a Circuit of a Node of a Radio Network
Atmel Corporation	8904134	US	Dec 2, 2014	Method and System of Communication Between a Transponder and a Base Station
Atmel Corporation	8289082	US	Oct 16, 2012	Circuit and Method for Adjusting an Offset Output Current for an Input Current Amplifier
Atmel Corporation	8760227	US	Jun 24, 2014	Circuit and Method for Adjusting an Offset Output Current for an Input Current Amplifier
Atmel Corporation	8571490	US	Oct 29, 2013	Transmitting/Receiving Device and Method for Transmitting Data in a Radio Network

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	9112587	US	Aug 18, 2015	Transmitting/Receiving Device and Method for Transmitting Data in a Radio Network
Atmel Corporation	8705670	US	Apr 22, 2014	Receiver and Method for the Reception of a Node by a Receiver in a Wireless Network
Atmel Corporation	9246605	US	Jan 26, 2016	Receiver and Method for the Reception of a Node by a Receiver in a Wireless Network
Atmel Corporation	9398533	US	Jul 19, 2016	Transmitting Data between Nodes of a Wireless Network
Atmel Corporation	8451061	US	May 28, 2013	Amplification of an Incoming Signal Received Via an Antenna
Atmel Corporation	9054718	US	Jun 9, 2015	Operating a Transceiver
Atmel Corporation	8872629	US	Oct 28, 2014	Passive Transponder with a Charging Circuit
Atmel Corporation	8933552	US	Jan 13, 2015	Semiconductor package
Atmel Corporation	6466036	US	Oct 15, 2002	Charge Transfer Capacitance Measurement Circuit
Atmel Corporation	7256714	US	Aug 14, 2007	Capacitive Keyboard with Reduced Keying Ambiguity
Atmel Corporation	6993607	US	Jan 31, 2006	Capacitive Keyboard with Reduced Keying Ambiguity
Atmel Corporation	7148704	US	Dec 12, 2006	Charge Transfer Capacitive Position Sensor
Atmel Corporation	6452514	US	Sep 17, 2002	Capacitive Sensor and Array
Atmel Corporation	7825905	US	Nov 2, 2010	Anisotropic Touch Screen Element
Atmel Corporation	8049738	US	Nov 1, 2011	Anisotropic, Resistance- Based Determination of a Position of an Object with Respect to a Touch Screen Element
Atmel Corporation	8847900	US	Sep 30, 2014	Touch Screen Element

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	8643626	US	Feb 4, 2014	Closed Path Capacitive Position Sensor
Atmel Corporation	8217915	US	Jul 10, 2012	Capacitive Position Sensor
Atmel Corporation	6188228	US	Feb 13, 2001	Hammer Having Integral Stud and Mains Sensor
Atmel Corporation	7969330	US	Jun 28, 2011	Touch Sensitive Control Panel
Atmel Corporation	6535200	US	Mar 18, 2003	Capacitive Position Sensor
Atmel Corporation	6288707	US	Sep 11, 2001	Capacitive Position Sensor
Atmel Corporation	7515140	US	Apr 7, 2009	Capacitive Sensor
Atmel Corporation	7295190	US	Nov 13, 2007	Touch Sensitive Control Panel
Atmel Corporation	9250751	US	Feb 2, 2016	Touch Sensitive Screen
Atmel Corporation	7932898	US	Apr 26, 2011	Touch Sensitive Screen
Atmel Corporation	7279647	US	Oct 9, 2007	Rotary Sensor with Tactile Buttons
Atmel Corporation	7945297	US	May 17, 2011	Headsets and Headset Power Management
Atmel Corporation	8045727	US	Oct 25, 2011	Headset Power Management
Atmel Corporation	8223133	US	Jul 17, 2012	Two-Dimensional Position Sensor
Atmel Corporation	8593424	US	Nov 26, 2013	Two-Dimensional Position Sensor
Atmel Corporation	7821502	US	Oct 26, 2010	Two-Dimensional Position Sensor
Atmel Corporation	7821425	US	Oct 26, 2010	Capacitive Keyboard with Non-Locking Reduced Keying Ambiguity
Atmel Corporation	8102286	US	Jan 24, 2012	Capacitive Keyboard with Non-Locking Reduced Keying Ambiguity
Atmel Corporation	9024790	US	May 5, 2015	Capacitive Keyboard with Non-Locking Reduced Keying Ambiguity
Atmel Corporation	8619054	US	Dec 31, 2013	Two-Dimensional Position Screen

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	9411481	US	Aug 9, 2016	Hybrid Capacitive Touch Screen Element
Atmel Corporation	9430104	US	Aug 30, 2016	Touch Screen Element
Atmel Corporation	8648819	US	Feb 11, 2014	Touch Screen Element
Atmel Corporation	8791910	US	Jul 29, 2014	Capacitive Keyboard with Position-Dependent Reduced Keying Ambiguity
Atmel Corporation	7903092	US	Mar 8, 2011	Capacitive Keyboard with Position Dependent Reduced Keying Ambiguity
Atmel Corporation	8786554	US	Jul 22, 2014	Priority and Combination Suppression Techniques (PST/CST) for a Capacitive Keyboard
Atmel Corporation	7830160	US	Nov 9, 2010	Capacitive Position Sensor
Atmel Corporation	8502547	US	Aug 6, 2013	Capacitive Sensor
Atmel Corporation	8432173	US	Apr 30, 2013	Capacitive Position Sensor
Atmel Corporation	7952367	US	May 31, 2011	Capacitive Position Sensor
Atmel Corporation	7986152	US	Jul 26, 2011	Capacitive Position Sensor
Atmel Corporation	7821274	US	Oct 26, 2010	Capacitive Position Sensor
Atmel Corporation	8624609	US	Jan 7, 2014	Two-Dimensional Position Sensor
Atmel Corporation	7808255	US	Oct 5, 2010	Two-Dimensional Position Sensor
Atmel Corporation	8842091	US	Sep 23, 2014	Two-Dimensional Touch Panel
Atmel Corporation	8749251	US	Jun 10, 2014	Proximity Sensor
Atmel Corporation	9081572	US	Jul 14, 2015	Proximity Sensor
Atmel Corporation	7952366	US	May 31, 2011	Proximity Sensor
Atmel Corporation	8970229	US	Mar 3, 2015	Capacitive Sensor with Additional Noise-Registering Electrode
Atmel Corporation	8536880	US	Sep 17, 2013	Capacitive Sensor with Additional Noise-Registering Electrode

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	9569037	US	Feb 14, 2017	Method and Apparatus for Operating a Key for Sensing the Presence of a Body
Atmel Corporation	8378981	US	Feb 19, 2013	Capacitive Sensing with High-Frequency Noise Suppression
Atmel Corporation	9122947	US	Sep 1, 2015	Gesture Recognition
Atmel Corporation	8526767	US	Sep 3, 2013	Gesture Recognition
Atmel Corporation	8659557	US	Feb 25, 2014	Touch Finding Method and Apparatus
Atmel Corporation	8866790	US	Oct 21, 2014	Multi-Touch Tracking
Atmel Corporation	8533654	US	Sep 10, 2013	Signal Processing
Atmel Corporation	8056044	US	Nov 8, 2011	Signal Processing
Atmel Corporation	8552995	US	Oct 8, 2013	Sensor and Method of Sensing
Atmel Corporation	8605037	US	Dec 10, 2013	Noise Reduction in Capacitive Touch Sensors
Atmel Corporation	8598894	US	Dec 3, 2013	Noise Handling in Capacitive Touch Sensors
Atmel Corporation	8629686	US	Jan 14, 2014	Noise Measurement in Capacitive Touch Sensors
Atmel Corporation	9448267	US	Sep 20, 2016	Noise Measurement in Capacitive Touch Sensors
Atmel Corporation	8054090	US	Nov 8, 2011	Noise Handling in Capacitive Touch Sensors
Atmel Corporation	8937611	US	Jan 20, 2015	Capacitive Touch Sensors
Atmel Corporation	8610009	US	Dec 17, 2013	Capacitive Touch Sensors
Atmel Corporation	8823675	US	Sep 2, 2014	Capacitive Matrix Touch Sensor
Atmel Corporation	8638314	US	Jan 28, 2014	Capacitive Touch Buttons Combined with Electroluminescent Lighting
Atmel Corporation	8237456	US	Aug 7, 2012	Capacitive Sensing
Atmel Corporation	7986153	US	Jul 26, 2011	Method and Apparatus for Sensing
Atmel Corporation	9244568	US	Jan 26, 2016	Touch Screen Sensor
Atmel Corporation	8610688	US	Dec 17, 2013	Electrode Crossovers

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	9141227	US	Sep 22, 2015	Multiple Electrode Touch Sensitive Device
Atmel Corporation	8704779	US	Apr 22, 2014	Multiple Electrode Touch Sensitive Device
Atmel Corporation	9322633	US	Apr 26, 2016	Capacitive Position Sensor
Atmel Corporation	8830180	US	Sep 9, 2014	Capacitive Position Sensor
Atmel Corporation	9041682	US	May 26, 2015	Driving Electrodes with Different Phase Signals
Atmel Corporation	8643621	US	Feb 4, 2014	Touch-Sensitive User Interface
Atmel Corporation	8279189	US	Oct 2, 2012	Touch-Sensitive User Interface
Atmel Corporation	9563317	US	Feb 7, 2017	Capacitive Control Panel
Atmel Corporation	8730199	US	May 20, 2014	Capacitive Control Panel
Atmel Corporation	8253706	US	Aug 28, 2012	Apparatus Using a Differential Analog-to-Digital Converter
Atmel Corporation	7675964	US	Mar 9, 2010	Method for Transmitting a Plurality of Information Symbols
Atmel Corporation	6842493	US	Jan 11, 2005	Procedure for Increasing the Manipulation Security for a Bi-Directional Contactless Data Transmission
Atmel Corporation	6593824	US	Jul 15, 2003	Process for reducing the decay and transient times of oscillating circuits
Atmel Corporation	6822521	US	Nov 23, 2004	Oscillating Circuit with Reduced Decay and Transient Times
Atmel Corporation	7120217	US	Oct 10, 2006	Phase-Locked Loop Circuit
Atmel Corporation	7816758	US	Oct 19, 2010	Integrated circuit having laterally dielectrically isolated active regions above an electrically contacted buried material, and method for producing the same
Atmel Corporation	7551702	US	Jun 23, 2009	Method and Circuit Arrangement for Synchronizing a Function Unit

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
				with a Predetermined Clock Frequency
Atmel Corporation	7129791	US	Oct 31, 2006	Circuit and method for faster frequency switching in a phase locked loop
Atmel Corporation	6952560	US	Oct 4, 2005	Tuned Antenna Resonant Circuit of a Passive Transponder
Atmel Corporation	6426692	US	Jul 30, 2002	Data transfer method for a scanning identification system
Atmel Corporation	6272321	US	Aug 7, 2001	Method for Tuning an Oscillating Receiver Circuit of a Transponder Built into a RFID System
Atmel Corporation	6510517	US	Jan 21, 2003	Method of Cryptological Authentication in a Scanning Identification System
Atmel Corporation	7130175	US	Oct 31, 2006	Monolithic Intergratable Circuit Arrangement for Protection Against a Transient Voltage
Atmel Corporation	6960981	US	Nov 1, 2005	Detecting Redirection During Data Transmission
Atmel Corporation	7385950	US	Jun 10, 2008	Method of Transmitting Data with Optimized Transmission Rate using Packet Header that Defines Data Encoding Parameters
Atmel Corporation	7132897	US	Nov 7, 2006	Method and circuit for producing a control voltage for a VCO
Atmel Corporation	6933215	US	Aug 23, 2005	Process for Doping a Semiconductor Body
Atmel Corporation	6878603	US	Apr 12, 2005	Process for Manufacturing a DMOS Transistor
Atmel Corporation	6780713	US	Aug 24, 2004	Process for Manufacturing a DMOS Transistor
Atmel Corporation	9063890	US	Jun 23, 2015	Executing Program To Protected Memory in

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
				Transponder Using Wireless Base Station
Atmel Corporation	6882826	US	Apr 19, 2005	Process for the Transfer of Data
Atmel Corporation	7209010	US	Apr 24, 2007	Oscillator with Tunable Diffusion Capacitance as Resonant Circuit Capacitance
Atmel Corporation	7233044	US	Jun 19, 2007	MOS-Transistor and Method for Producing a MOS-Transistor Structure
Atmel Corporation	7601568	US	Oct 13, 2009	MOS-Transistor and Method for Producing a MOS-Transistor Structure
Atmel Corporation	7286809	US	Oct 23, 2007	Method and circuit system for suppressing noise in a signal processing circuit
Atmel Corporation	7315732	US	Jan 1, 2008	Method for frequency conversion and receiver
Atmel Corporation	7078324	US	Jul 18, 2006	Method of fabricating semiconductor component with active regions separated by isolation trenches
Atmel Corporation	7064385	US	Jun 20, 2006	DMOS-Transistor with lateral dopant gradient in drift region and method of producing the same
Atmel Corporation	7144796	US	Dec 5, 2006	Method of Fabricating Semiconductor Components through Implantation and Diffusion in a Semiconductor Substrate
Atmel Corporation	7129788	US	Oct 31, 2006	Method and Apparatus for Driving a Direct Current or Voltage Controlled Oscillator with Modulation Slope Feedback
Atmel Corporation	7199601	US	Apr 3, 2007	Method and Testing Apparatus for Testing Integrated Circuits

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	7408375	US	Aug 5, 2008	Method and Testing Apparatus for Testing Integrated Circuits
Atmel Corporation	6806749	US	Oct 19, 2004	Circuit Arrangement and Method for Generating a Time-Limited Signal
Atmel Corporation	7322837	US	Jan 29, 2008	Plug Connector Modules of a Plug Connector for Simultaneously Connecting a Plurality of Electrical Contacts
Atmel Corporation	6970679	US	Nov 29, 2005	Method of Detecting a Redirection or Relaying of a Contactless Data Transmission Using at least Two Sequentially Driven Transmitting Antennas
Atmel Corporation	RE41843	US	Oct 19, 2010	Method of Detecting a Redirection or Relaying of a Contactless Data Transmission Using at least Two Sequentially Driven Transmitting Antennas
Atmel Corporation	6922553	US	Jul 26, 2005	Method and Circuit for Obtaining Field Strength Information
Atmel Corporation	7471164	US	Dec 30, 2008	Oscillator and Method for Operating an Oscillator
Atmel Corporation	7277478	US	Oct 2, 2007	Method for Transmitting Data Between a Base Station and a Transponder
Atmel Corporation	7102488	US	Sep 5, 2006	Method for Selecting Transponders
Atmel Corporation	8315276	US	Nov 20, 2012	Transmitting Data Between a Base Station and a Transponder
Atmel Corporation	7259596	US	Aug 21, 2007	Circuit Arrangement for Monitoring a Voltage
Atmel Corporation	7061316	US	Jun 13, 2006	High Frequency Power Detector with DMB-Linear Characteristic and Method of

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
				Regulating the Power of Electrical HF-Oscillation
Atmel Corporation	7151436	US	Dec 19, 2006	Receiving/backscattering Arrangement and Method with Two Modulation Modes for Wireless Data Transmission as Well as Modulation Arrangement Therefor
Atmel Corporation	8761149	US	Jun 24, 2014	Method for Data Communication Between a Base Station and a Transponder
Atmel Corporation	9165169	US	Oct 20, 2015	Method for Data Communication Between a Base Station and a Transponder
Atmel Corporation	7376391	US	May 20, 2008	Wireless data transmission between base station and transponder with encoding/decoding parameter adjusted dependent on header symbol duration
Atmel Corporation	7109845	US	Sep 19, 2006	Circuit Arrangement for Signal Detection Having Current Mirror With Cascode Coupled Transistors
Atmel Corporation	7359472	US	Apr 15, 2008	Method and apparatus for wireless data transmission
Atmel Corporation	8254841	US	Aug 28, 2012	Method and Apparatus for Data Communication Between a Base Station and a Transponder
Atmel Corporation	8577295	US	Nov 5, 2013	Method and Apparatus for Data Communication Between a Base Station and a Transponder
Atmel Corporation	7001804	US	Feb 21, 2006	Method of Producing Active Semiconductor Layers of

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
				Different Thicknesses in an SOI wafer
Atmel Corporation	7189619	US	Mar 13, 2007	Process for manufacturing vertically insulated structural components on SOI material of various thickness
Atmel Corporation	7049958	US	May 23, 2006	Integrated Circuit for a Transponder
Atmel Corporation	7173519	US	Feb 6, 2007	Circuit Arrangement with Simplified Input Circuit for Phase Modulation in a Backscattering Transponder
Atmel Corporation	7859387	US	Dec 28, 2010	Backscatter Transponder
Atmel Corporation	7436286	US	Oct 14, 2008	Circuit arrangement and method for increasing the functional range of transponder
Atmel Corporation	7590087	US	Sep 15, 2009	Verfahren sowie Modualtionssteuereinrichtung zur drahtlosen Datenübertragung
Atmel Corporation	7613987	US	Nov 3, 2009	Method for wireless data transmission
Atmel Corporation	7633111	US	Dec 15, 2009	Semiconductor structure
Atmel Corporation	7746216	US	Jun 29, 2010	RF Responder or Circuit Arrangement Used in Remote Sensor and Control Method Thereof
Atmel Corporation	6940467	US	Sep 6, 2005	Circuit Arrangement and Method for Deriving Electrical Power from an Electromagnetic Field
Atmel Corporation	7342481	US	Mar 11, 2008	Method and Circuit Arrangement for Wireless Data Transmission
Atmel Corporation	7723198	US	May 25, 2010	Integrated Semiconductor cascode circuit for high-frequency applications

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	7358181	US	Apr 15, 2008	Method for Structuring a Semiconductor Device
Atmel Corporation	8049708	US	Nov 1, 2011	Hybrid Analog and Digital Architecture for Controlling Backlight Light Emitting Diodes of an Electronic Display
Atmel Corporation	7663326	US	Feb 16, 2010	Temperature Dependant LED Current Controller
Atmel Corporation	8169450	US	May 1, 2012	System and Method for Ambient-Light Adaptive Intensity Control for an Electronic Display
Atmel Corporation	7598800	US	Oct 6, 2009	System and Method for Ambient-Light Adaptive Intensity Control for an Electronic Display
Atmel Corporation	7777704	US	Aug 17, 2010	System and Method for Controlling a Multi-String Light Emitting Diode Backlighting System for an Electronic Display
Atmel Corporation	8493300	US	Jul 23, 2013	Architecture and Technique for Inter-Chip Communication
Atmel Corporation	8581810	US	Nov 12, 2013	Methods and Circuits for Self-Calibrating Controller
Atmel Corporation	8314572	US	Nov 20, 2012	Apparatus and Methodology for Enhancing Efficiency of a Power Distribution System Having Power Factor Correction Capability by Using a Self-Calibrating Controller
Atmel Corporation	8217887	US	Jul 10, 2012	System and Method for Backlight Control for an Electronic Display
Atmel Corporation	8378957	US	Feb 19, 2013	Methods and Circuits for Triode Region Detection
Atmel Corporation	8536933	US	Sep 17, 2013	Method and Circuit for an Operating Area Limiter

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	8476965	US	Jul 2, 2013	Method and Circuit for an Operating Area Limiter
Atmel Corporation	8441199	US	May 14, 2013	Method and Apparatus for an Intelligent Light Emitting Diode Driver Having Power Factor Correction Capability
Atmel Corporation	8222910	US	Jul 17, 2012	Method and Apparatus for Sub-Assembly Error Detection in High Voltage Analog Circuits and Pins
Atmel Corporation	8698728	US	Apr 15, 2014	Apparatus for Integrated Backlight and Dynamic Gamma/VCom Control on SIlicon Chips
Atmel Corporation	8604856	US	Dec 10, 2013	Apparatus, Circuit and Method for Automatic Phase-Shifting Pulse Width Modulated Signal Generation
Atmel Corporation	8339174	US	Dec 25, 2012	Apparatus, Circuit and Method for Automatic Phase-Shifting Pulse Width Modulated Signal Generation
Atmel Corporation	8373364	US	Feb 12, 2013	Smart Monitoring of Light Emitting Diode Strings
Atmel Corporation	8547323	US	Oct 1, 2013	Control of Light-Emitting-Diode Backlight Illumination Through Frame Insertion
Atmel Corporation	8378961	US	Feb 19, 2013	Control of Light-Emitting-Diode Backlight Illumination Through Frame Insertion
Atmel Corporation	9064461	US	Jun 23, 2015	Load Aware Compensation In Light-Emitting Diode Backlight Illumination Systems
Atmel Corporation	8581828	US	Nov 12, 2013	Load Aware Compensation In Light-Emitting Diode Backlight Illumination Systems
Atmel Corporation	8917231	US	Dec 23, 2014	Regulation of Gamma Characteristic in a Display

GRANTOR	PATENT NO.	COUNTRY OF REGISTRATION	ISSUE DATE	TITLE OF PATENT
Atmel Corporation	8508730	US	Aug 13, 2013	Quality Assurance of a Solid-State Illumination Source

(i) U.S. Patent applications:

GRANTOR	APPLICATION SERIAL NUMBER	COUNTRY OF APPLICATION	FILING DATE	TITLE OF PATENT APPLICATION
Atmel Corporation	12/604,944	US	Oct 23, 2009	Interdigitated Touchscreen Electrodes
Atmel Corporation	14/047,774	US	Oct 7, 2013	Method and Apparatus to Measure Self-Capacitance Using a Single Pin
Atmel Corporation	15/185,659	US	Jun 17, 2016	Touchscreen Electrode Arrangement
Atmel Corporation	12/605,779	US	Oct 26, 2009	Sense Electrode Design
Atmel Corporation	12/608,802	US	Oct 29, 2009	Redundant Touchscreen Electrodes
Atmel Corporation	12/534,748	US	Aug 3, 2009	Electrode Layout for Touch Screens
Atmel Corporation	14/448,472	US	Jul 31, 2014	Capacitive Touch-Screen Panel with Multiple Sense Units and Related Methods
Atmel Corporation	12/859,874	US	Aug 20, 2010	Electronic Ink Touch Sensitive Display
Atmel Corporation	12/891,329	US	Sep 27, 2010	Position-Sensing Panel and Related Methods
Atmel Corporation	13/846,458	US	Mar 18, 2013	Proximity Detection
Atmel Corporation	14/981,510	US	Dec 28, 2015	Position-Sensing and Force Detection Panel
Atmel Corporation	12/976,865	US	Dec 22, 2010	Low-Power Operation for Devices with Circuitry for Providing Reference or Regulated Voltages
Atmel Corporation	13/333,791	US	Dec 21, 2011	Active-Stylus with Configurable Touch Sensor
Atmel Corporation	13/329,270	US	Dec 17, 2011	Power Management System for Active Stylus

GRANTOR	APPLICATION SERIAL NUMBER	COUNTRY OF APPLICATION	FILING DATE	TITLE OF PATENT APPLICATION
Atmel Corporation	13/556,766	US	Jul 24, 2012	Authenticating with Active Stylus
Atmel Corporation	14/832,049	US	Aug 21, 2015	Executing Gestures with Active Stylus
Atmel Corporation	14/876,176	US	Oct 6, 2015	Active Stylus with Surface-Modification Materials
Atmel Corporation	14/883,064	US	Oct 14, 2015	Executing Gestures with Active Stylus
Atmel Corporation	13/356,122	US	Jan 23, 2012	Data Transfer from Active Stylus to Configure a Device or Application
Atmel Corporation	13/328,594	US	Dec 16, 2011	Power Management System for Active Stylus
Atmel Corporation	13/332,919	US	Dec 21, 2011	Multi-Electrode Active Stylus Tip
Atmel Corporation	13/434,596	US	Mar 29, 2012	Differential Sensing in an Active Stylus
Atmel Corporation	15/008,835	US	Jan 28, 2016	Active stylus with Filter
Atmel Corporation	13/553,532	US	Jul 19, 2012	Touch-Sensitive System with Motion Filtering
Atmel Corporation	13/556,799	US	Jul 24, 2012	Authenticating with Active Stylus
Atmel Corporation	14/516,845	US	Oct 17, 2014	Active Stylus with High Voltage
Atmel Corporation	13/328,055	US	Dec 16, 2011	Locking Active Stylus and Touch-Sensor Device
Atmel Corporation	13/326,981	US	Dec 15, 2011	Communication Between a Master Stylus and a Slave Touch-Sensor Device
Atmel Corporation	13/278,046	US	Oct 20, 2011	Single-Layer Touch Sensor
Atmel Corporation	13/206,689	US	Aug 10, 2011	Substantially Edgeless Touch Sensor
Atmel Corporation	13/283,131	US	Oct 27, 2011	Narrow-Band Touch Detection
Atmel Corporation	13/350,018	US	Jan 13, 2012	Touch Screen with Electrodes Positioned Between Pixels
Atmel Corporation	14/795,806	US	Jul 9, 2015	Programmable Logic Unit

GRANTOR	APPLICATION SERIAL NUMBER	COUNTRY OF APPLICATION	FILING DATE	TITLE OF PATENT APPLICATION
Atmel Corporation	13/786,124	US	Mar 5, 2013	Method to account for changes in measurement signal due to deformation of the touch panel.
Atmel Corporation	13/226,059	US	Sep 6, 2011	Touch Sensor with Touch Object Discrimination
Atmel Corporation	13/452,115	US	Apr 20, 2012	Inter Touch -Sensor Communications
Atmel Corporation	13/309,042	US	Dec 1, 2011	Surface Coverage Touch
Atmel Corporation	13/351,809	US	Jan 17, 2012	Dual-Substrate-Sensor Stack
Atmel Corporation	13/351,903	US	Jan 17, 2012	On-Display-Sensor Stack
Atmel Corporation	13/275,954	US	Oct 18, 2011	Driving Circuits for Light Emitting Elements
Atmel Corporation	15/131,768	US	Apr 18, 2016	Microcontroller Resource Sharing
Atmel Corporation	13/310,088	US	Dec 2, 2011	Improved Touch Sensing Using Motion Information
Atmel Corporation	15/260,246	US	Sep 8, 2016	Pulse Width Modulation Controller Architectures
Atmel Corporation	13/330,257	US	Dec 20, 2011	Touch Sensor with Reduced Anti-Touch Effects
Atmel Corporation	14/254,979	US	Apr 17, 2014	Integrated Touch Screen
Atmel Corporation	14/509,525	US	Oct 8, 2014	Integrated Touch Screen
Atmel Corporation	13/536,615	US	Jun 28, 2012	A Surface with Touch Sensors For Detecting Proximity
Atmel Corporation	15/148,639	US	May 6, 2016	Driven Shield for Shaping an Electric Field of a Touch Sensor
Atmel Corporation	14/983,064	US	Dec 29, 2015	Integrated Pixel Display and Touch Sensor
Atmel Corporation	15/042,390	US	Feb 12, 2016	Drive Signals for a Touch Sensor
Atmel Corporation	13/475,750	US	May 18, 2012	Burst-Mode Self-Capacitance Measurement with Compensated Capacitance

GRANTOR	APPLICATION SERIAL NUMBER	COUNTRY OF APPLICATION	FILING DATE	TITLE OF PATENT APPLICATION
Atmel Corporation	13/753,380	US	Jan 29, 2013	Fetching Instructions of a Loop Routine
Atmel Corporation	14/919,889	US	Oct 22, 2015	Charge Measurement
Atmel Corporation	13/442,502	US	Apr 9, 2012	Differential Interface for Inter-Device Communication in a Battery Management and Protection System
Atmel Corporation	15/224,132	US	Jul 29, 2016	Touch Sensor Scanning for Display Embedded Touch Sensors
Atmel Corporation	13/633,029	US	Oct 1, 2012	Remote Monitoring of Battery Packs
Atmel Corporation	14/857,958	US	Sep 18, 2015	Memory Device and Systems and Methods for Selecting Memory Cells in the Memory Device
Atmel Corporation	13/630,026	US	Sep 28, 2012	Microcontroller with Integrated Monitoring Capabilities for Network Applications
Atmel Corporation	13/630,990	US	Sep 28, 2012	Stylus Communications with Near-Field Coupling
Atmel Corporation	13/618,068	US	Sep 14, 2012	Pattern of Electrodes for a Touch Sensor
Atmel Corporation	13/671,106	US	Nov 7, 2012	Resistive Interpolation for a Touch Sensor with Opaque Conductive Material
Atmel Corporation	13/828,021	US	Mar 14, 2013	Reduction of Touch Sensor Pattern Visibility Using Beamsplitters
Atmel Corporation	15/094,744	US	Apr 8, 2016	Touch Sensor with Spacers Supporting a Cover Panel
Atmel Corporation	13/603,155	US	Sep 4, 2012	Reference Voltage Circuits in Mircocontroller Systems
Atmel Corporation	15/368,808	US	Dec 5, 2016	Microcontroller Input/Output Connector State Retention in Low-Power Modes

GRANTOR	APPLICATION SERIAL NUMBER	COUNTRY OF APPLICATION	FILING DATE	TITLE OF PATENT APPLICATION
Atmel Corporation	15/082,056	US	Mar 28, 2016	Voltage Scaling System with Sleep Mode
Atmel Corporation	13/614,467	US	Sep 13, 2012	Voltage Scaling System Supporting Synchronous Applications
Atmel Corporation	13/653,200	US	Oct 16, 2012	Active Stylus with a Parallel Communication Channel
Atmel Corporation	13/653,247	US	Oct 16, 2012	Stylus Position System
Atmel Corporation	13/653,300	US	Oct 16, 2012	Active Stylus Communication and Position System
Atmel Corporation	13/654,996	US	Oct 18, 2012	Touch Sensor With Simultaneously Driven Drive Electrodes
Atmel Corporation	15/093,064	US	Apr 7, 2016	Microcontroller with Integrated Interface Enabling Reading Data Randomly from Serial Flash Memory
Atmel Corporation	14/826,443	US	Aug 14, 2015	Connecting Multiple Slave Devices to a Single Master in Bus System
Atmel Corporation	15/130,565	US	Apr 15, 2016	Low Total Harmonic Distortion and High Power Factor Correction Power Converters
Atmel Corporation	13/864,058	US	Apr 16, 2013	Differential Sensing for Touch Sensors
Atmel Corporation	15/187,619	US	Jun 20, 2016	Proactive Quality of Service in Multi-Matrix Bus
Atmel Corporation	15/419,737	US	Jan 30, 2017	Edgeless Single-Layer Touch Sensor
Atmel Corporation	13/711,105	US	Dec 11, 2012	Sending Drive Signals with an Increased Number of Pulses to Particular Drive Lines
Atmel Corporation	13/970,521	US	Aug 19, 2013	Self-Shielding Co-Planar Touch Sensor
Atmel Corporation	13/676,481	US	Nov 14, 2012	Adjustable Power and System Efficiency Maximizing Scheme using Micro-controllers

GRANTOR	APPLICATION SERIAL NUMBER	COUNTRY OF APPLICATION	FILING DATE	TITLE OF PATENT APPLICATION
Atmel Corporation	13/931,181	US	Jun 28, 2013	Pattern of Electrodes for a Touch Sensor
Atmel Corporation	13/903,599	US	May 28, 2013	Multi-State Capacitive Button
Atmel Corporation	13/756,484	US	Jan 31, 2013	Integrated Circuit for Remote Keyless Entry System
Atmel Corporation	13/930,754	US	Jun 28, 2013	Pseudo Driven Shield
Atmel Corporation	15/057,878	US	Mar 1, 2016	Fast Scanning for Mutual Capacitance Screens
Atmel Corporation	15/342,483	US	Nov 3, 2016	Method for Changing the Detection Range of a Touch Sensor
Atmel Corporation	13/955,352	US	Jul 31, 2013	Dynamic Clustering of Touch Sensor Electrodes
Atmel Corporation	14/075,412	US	Nov 8, 2013	Dynamic Configuration of Touch Sensor Electrode Clusters
Atmel Corporation	13/851,225	US	Mar 27, 2013	Touch Sensor with Edge-Balanced Macro-Feature Design
Atmel Corporation	15/172,661	US	Jun 3, 2016	Generating Clock on Demand
Atmel Corporation	15/223,227	US	Jul 29, 2016	Managing Wait States for Memory Access
Atmel Corporation	13/953,161	US	Jul 29, 2013	Voltage Driven Self-Capacitance Measurement
Atmel Corporation	14/086,735	US	Nov 21, 2013	Replaceable Tip for Active Stylus
Atmel Corporation	15/083,417	US	Mar 29, 2016	Oncell Single-Layer Touch Sensor
Atmel Corporation	13/929,605	US	Jun 27, 2013	Tracing Events in an Autonomous Event System
Atmel Corporation	13/929,617	US	Jun 27, 2013	A System for Debugging DMA System Data Transfer
Atmel Corporation	13/953,140	US	Jul 29, 2013	Measuring Power Consumption of Circuit Component Operating in Run Mode
Atmel Corporation	14/049,048	US	Oct 8, 2013	Touch-Sensor Electrode Details

GRANTOR	APPLICATION SERIAL NUMBER	COUNTRY OF APPLICATION	FILING DATE	TITLE OF PATENT APPLICATION
Atmel Corporation	13/967,176	US	Aug 13, 2013	Smart Grid Appliance Control
Atmel Corporation	14/014,128	US	Aug 29, 2013	Multi-Protocol Serial Communication Interface
Atmel Corporation	15/412,198	US	Jan 23, 2017	Centralized Peripheral Access Protection
Atmel Corporation	13/964,971	US	Aug 12, 2013	Peripheral Registers with Flexible Data Width
Atmel Corporation	15/262,805	US	Sep 12, 2016	Sense Amplifier
Atmel Corporation	14/968,585	US	Dec 14, 2015	Method and System for Determining Stylus Tilt in Relation to a Touch-Sensing Device
Atmel Corporation	15/343,666	US	Nov 4, 2016	Breaking Code Execution Based on Time Consumption
Atmel Corporation	14/022,150	US	Sep 9, 2013	Generic Randomized Mesh Design
Atmel Corporation	15/171,695	US	Jun 2, 2016	Configuring Power Domains of a Microcontroller System
Atmel Corporation	14/885,061	US	Oct 16, 2015	Capacitive Measurement Circuit for a Touch Sensor Device
Atmel Corporation	14/256,176	US	Apr 18, 2014	Touch System with Code Hopping Algorithms and Code Division Multiplexing
Atmel Corporation	14/875,255	US	Oct 5, 2015	Current Regulator with Regulated Supply Voltage
Atmel Corporation	15/265,057	US	Sep 14, 2016	System Bus Transaction Queue Reallocation
Atmel Corporation	14/248,100	US	Apr 8, 2014	Detecting which hand is in use on a capacitive touchscreen
Atmel Corporation	15/256,188	US	Sep 2, 2016	Single-Layer Touch Sensor
Atmel Corporation	14/204,949	US	Mar 11, 2014	Low-Birefringence Substrate for Touch Sensor
Atmel Corporation	14/270,189	US	May 5, 2014	Implementing a Virtual Controller Outside an Area of a Touch Sensor

GRANTOR	APPLICATION SERIAL NUMBER	COUNTRY OF APPLICATION	FILING DATE	TITLE OF PATENT APPLICATION
Atmel Corporation	14/479,972	US	Sep 8, 2014	Optimized Multi-Precision Division
Atmel Corporation	14/275,462	US	May 12, 2014	Timing Synchronization of Active Stylus and Touch Sensor
Atmel Corporation	14/201,599	US	Mar 7, 2014	Variable-Pitch Tracking for Touch Sensors
Atmel Corporation	14/486,419	US	Sep 15, 2014	Effective response with MCU control
Atmel Corporation	14/546,564	US	Nov 18, 2014	Single Wire System Clock Signal Generation
Atmel Corporation	14/456,960	US	Aug 11, 2014	Method of placing an Electrical components directly on a touch film substrate
Atmel Corporation	14/505,003	US	Oct 2, 2014	Initiating Multiple Data Transactions on a System Bus
Atmel Corporation	14/316,625	US	Jun 26, 2014	Power Trace Port for Tracing States of Power Domains
Atmel Corporation	14/462,367	US	Aug 18, 2014	Instrumenting Switch Mode Power Supply to Measure Circuit Power Consumption
Atmel Corporation	14/538,305	US	Nov 11, 2014	Peripheral Register Parameter Refreshing
Atmel Corporation	14/532,818	US	Nov 4, 2014	Data Transfer
Atmel Corporation	15/294,922	US	Oct 17, 2016	Touch Sensor
Atmel Corporation	14/530,518	US	Oct 31, 2014	Controlling Power States of a Device
Atmel Corporation	14/550,491	US	Nov 21, 2014	Multi-Protocol Frame Filter (MPFF)
Atmel Corporation	14/529,973	US	Oct 31, 2014	Adaptive Acknowledgment Transmissions
Atmel Corporation	14/530,622	US	Oct 31, 2014	System Internal Latencies Measurements in Real-Time Applications
Atmel Corporation	14/621,144	US	Feb 12, 2015	Managing Single-Wire Communications

GRANTOR	APPLICATION SERIAL NUMBER	COUNTRY OF APPLICATION	FILING DATE	TITLE OF PATENT APPLICATION
Atmel Corporation	14/621,092	US	Feb 12, 2015	Adaptive Speed Single-Wire Communications
Atmel Corporation	14/605,135	US	Jan 26, 2015	Single-Wire Communication System Using Predictive Host Sampling Window
Atmel Corporation	15/345,083	US	Nov 7, 2016	Single Wire System with Baud Learning Feature
Atmel Corporation	14/612,042	US	Feb 2, 2015	Configuring Serial Devices
Atmel Corporation	14/642,128	US	Mar 9, 2015	Mesh Adaptive Transmitter Voltage in an Active Stylus
Atmel Corporation	14/788,637	US	Jun 30, 2015	Stylus with Low-Power Detector
Atmel Corporation	15/167,790	US	May 27, 2016	Sign Detection in Multi-Dimensional Signal Measurements
Atmel Corporation	14/977,348	US	Dec 21, 2015	Stylus Detection and Scan
Atmel Corporation	14/978,286	US	Dec 22, 2015	Stylus box scan
Atmel Corporation	14/978,332	US	Dec 22, 2015	Stylus Detection and Scan
Atmel Corporation	14/677,817	US	Apr 2, 2015	Peripheral Interface Circuit for Serial Memory
Atmel Corporation	14/687,691	US	Apr 15, 2015	Low-Power and Low-Frequency Data Transmission for Stylus
Atmel Corporation	14/698,330	US	Apr 28, 2015	Secure Access in a Microcontroller System
Atmel Corporation	14/816,478	US	Aug 3, 2015	Memory System with Encoding
Atmel Corporation	14/835,418	US	Aug 25, 2015	Microcontroller Architecture with Access Stealing
Atmel Corporation	14/815,776	US	Jul 31, 2015	Frequency Control Data Synchronization
Atmel Corporation	14/930,480	US	Nov 2, 2015	Low to medium speed AC-coupled serial interface
Atmel Corporation	14/925,748	US	Oct 28, 2015	Communication Between Active Stylus and Touch Sensor

GRANTOR	APPLICATION SERIAL NUMBER	COUNTRY OF APPLICATION	FILING DATE	TITLE OF PATENT APPLICATION
Atmel Corporation	15/419,745	US	Jan 30, 2017	Applying a Signal to a Touch Sensor
Atmel Corporation	14/942,713	US	Nov 16, 2015	System Architecture with Secure Data Exchange
Atmel Corporation	14/946,901	US	Nov 20, 2015	Input/Output Parameter Selection
Atmel Corporation	14/836,637	US	Aug 26, 2015	Capacitive Touch Sensing With Lumped Sensors
Atmel Corporation	14/882,170	US	Oct 13, 2015	Interleaved Scanning for Capacitive Touch Sensors
Atmel Corporation	15/060,277	US	Mar 3, 2016	Touch Sensor Mode Transitioning
Atmel Corporation	15/209,388	US	Jul 13, 2016	Touch Sensor Mesh Designs
Atmel Corporation	15/177,846	US	Jun 9, 2016	Active Stylus with Multiple Sensors for Receiving Signals from a Touch Sensor
Atmel Corporation	14/977,132	US	Dec 21, 2015	Automative Header Invert for Active Stylus
Atmel Corporation	15/061,981	US	Mar 4, 2016	Fast and accurate AGC principle for received field strength indication
Atmel Corporation	15/226,606	US	Aug 2, 2016	Power Mode Configuration for Touch Sensors
Atmel Corporation	14/936,549	US	Nov 9, 2015	Debugger for Wireless Sensor Networks
Atmel Corporation	62/368,976	US	Jul 29, 2016	Measuring Capacitance in a Touch Display System
Atmel Corporation	15/131,919	US	Apr 18, 2016	Message Authentication with Secure Code Verification
Atmel Corporation	14/928,437	US	Oct 30, 2015	Suspension of Touch Sensor Scan Based on an Expected Interference
Atmel Corporation	15/045,834	US	Feb 17, 2016	Connecting Electrodes to Voltages
Atmel Corporation	15/040,889	US	Feb 10, 2016	Touch Object Detection for Touch Sensors

GRANTOR	APPLICATION SERIAL NUMBER	COUNTRY OF APPLICATION	FILING DATE	TITLE OF PATENT APPLICATION
Atmel Corporation	62/350,537	US	Jun 15, 2016	Touch Device
Atmel Corporation	15/134,044	US	Apr 20, 2016	Touch Sensor Mesh Designs
Atmel Corporation	14/990,974	US	Jan 8, 2016	Touch Sensor and Associated Control Method for Decreased Capacitive Loads
Atmel Corporation	15/165,541	US	May 26, 2016	Touch Sensor Compensation Circuit
Atmel Corporation	15/158,843	US	May 19, 2016	A touch sensor selfcap mode that continuously drives and senses differentially at the same time
Atmel Corporation	15/149,029	US	May 6, 2016	Electronic Package
Atmel Corporation	62/347,033	US	Jun 7, 2016	Isolated Flyback Power Converter
Atmel Corporation	15/149,033	US	May 6, 2016	Double-Sided Electronic Package
Atmel Corporation	15/089,358	US	Apr 1, 2016	Voltage Level Shifter
Atmel Corporation	14/982,427	US	Dec 29, 2015	Microcontroller Including Power Supply Monitoring
Atmel Corporation	15/188,680	US	Jun 21, 2016	Excitation Voltages for Touch Sensors
Atmel Corporation	15/044,693	US	Feb 16, 2016	Host-controlled Secure Boot
Atmel Corporation	15/044,770	US	Feb 16, 2016	Controlled Secure Code Authentication
Atmel Corporation	15/213,320	US	Jul 18, 2016	Antenna on Integrated Circuit Package
Atmel Corporation	15/130,656	US	Apr 15, 2016	CAN Translator with Security Features
Atmel Corporation	62/347,560	US	Jun 8, 2016	Dual Phase Power Converter
Atmel Corporation	15/093,342	US	Apr 7, 2016	Multi-Channel RAM with ECC for Partial Writes
Atmel Corporation	15/177,864	US	Jun 9, 2016	Force Sensor Pattern
Atmel Corporation	15/138,152	US	Apr 25, 2016	Driven Shield Control
Atmel Corporation	15/154,287	US	May 13, 2016	Display Controller

GRANTOR	APPLICATION SERIAL NUMBER	COUNTRY OF APPLICATION	FILING DATE	TITLE OF PATENT APPLICATION
Atmel Corporation	15/190,878	US	Jun 23, 2016	Regulators with Load-Insensitive Compensations
Atmel Corporation	15/240,983	US	Aug 18, 2016	Self-Setting/Resetting Latch
Atmel Corporation	62/437,015	US	Dec 20, 2016	Automatic transmission of dummy bits in SPI master reseption
Atmel Corporation	62/437,015	US	Dec 20, 2016	Automatic transmission of dummy bits in SPI master reseption
Atmel Corporation	15/294,413	US	Oct 14, 2016	HW EEPROM Emulation mechanism
Atmel Corporation	15/277,971	US	Sep 27, 2016	Inter-Process Signaling Mechanism
Atmel Corporation	62/364,815	US	Jul 20, 2016	Security Extensions for Non-Volatile Data Storage
Atmel Corporation	15/385,810	US	Dec 20, 2016	Security Extensions for Non-Volatile Data Storage
Atmel Corporation	15/355,544	US	Nov 18, 2016	Touch Sensor Signal Integration
Atmel Corporation	15/355,383	US	Nov 18, 2016	Touch Sensor Signal Integration
Atmel Corporation	62/382,703	US	Sep 1, 2016	Low Cost Cryptographic Accelerator
Atmel Corporation	62/442,922	US	Jan 5, 2017	Autonomous hardware PID controller IP
Atmel Corporation	12/034,308	US	Feb 20, 2008	Fabricating Low Cost Solder Bumps on Integrated Circuit Wafers
Atmel Corporation	11/021,346	US	Dec 22, 2004	Temperature-Stable Voltage Reference Circuit
Atmel Corporation	11/603,495	US	Nov 22, 2006	Secure Biometric Processing System and Method of Use
Atmel Corporation	11/379,872	US	Apr 24, 2006	Communications Device without Passive Pullup Components
Atmel Corporation	11/123,305	US	May 6, 2005	Transient Pulse, Substrate-Triggered Bi-CMOS Rail Clamp for ESD Abatement

GRANTOR	APPLICATION SERIAL NUMBER	COUNTRY OF APPLICATION	FILING DATE	TITLE OF PATENT APPLICATION
Atmel Corporation	11/927,298	US	Oct 29, 2007	High-Efficiency Bi-Directional Charge Pump Circuit
Atmel Corporation	15/365,604	US	Nov 30, 2016	Coexisting of Interfering Wireless Signals
Atmel Corporation	13/904,765	US	May 29, 2013	Permitting Media Contention in the Presence of Conflicting Different Wireless
Atmel Corporation	14/688,556	US	Apr 16, 2015	Method and Apparatus For Operating A Wireless PAN Network Using An Overlay Protocol That Enhances Co-Existence With A Wireless LAN Network
Atmel Corporation	14/589,832	US	Jan 5, 2015	Method and Apparatus for Coordinating a Wireless PAN Network and a Wireless LAN Network
Atmel Corporation	14/145,139	US	Dec 31, 2013	Method, Transponder, and Circuit for Selecting One or More Transponders
Atmel Corporation	14/171,219	US	Feb 3, 2014	Method for Locating a Backscatter-Based Transponder
Atmel Corporation	12/766,548	US	Apr 23, 2010	Circuit for a transponder and method for testing the circuit
Atmel Corporation		US	Feb 29, 2016	Distance Measurement Between Two Nodes of a Radio Network
Atmel Corporation	12/649,133	US	Dec 29, 2009	Transmitter-receiver circuit and method for distance measurement between a first node and a second node of a radio network
Atmel Corporation	15/001,127	US	Jan 19, 2016	Transmitter-Receiver Circuit And Method For Distance Measurement Between A First Node And A Second Node Of A Radio Network

GRANTOR	APPLICATION SERIAL NUMBER	COUNTRY OF APPLICATION	FILING DATE	TITLE OF PATENT APPLICATION
Atmel Corporation	14/997,410	US	Jan 15, 2016	Circuit of a Node and Method for Transit Time Measurement in a Radio Network
Atmel Corporation	14/511,796	US	Oct 10, 2014	Passive Transponder with a Charging Circuit
Atmel Corporation	14/144,174	US	Dec 30, 2013	Two-Dimensional Position Screen
Atmel Corporation	14/492,630	US	Sep 22, 2014	Two-Dimensional Touch Screen
Atmel Corporation	12/671,501	US	Apr 8, 2010	Sensor and Method of Sensing
Atmel Corporation	12/421,705	US	Apr 10, 2009	Capacitive Touch Screen with Noise Suppression
Atmel Corporation	14/164,638	US	Jan 27, 2014	Capacitive Touch Buttons Combined with Electroluminescent Lighting
Atmel Corporation	13/537,986	US	Jun 29, 2012	Capacitive Sensing
Atmel Corporation	15/388,774	US	Dec 22, 2016	Capacitive Sensing
Atmel Corporation	14/850,223	US	Sep 10, 2015	Capacitive Position Sensor
Atmel Corporation	12/838,181	US	Jul 16, 2010	Enchanced Conductors
Atmel Corporation	13/593,982	US	Aug 24, 2012	Apparatus Using a Differential Analog-to-Digital Converter
Atmel Corporation	13/426,301	US	Mar 21, 2012	Apparatus and Technique for Modular Electronic Display Control
Atmel Corporation	11/942,239	US	Nov 19, 2007	Apparatus and Technique for Modular Electronic Display Control