

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT7493724

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	RELEASE OF SECURITY INTEREST
CONVEYING PARTY DATA	
Name	Execution Date
GOLDMAN SACHS BANK USA, AS COLLATERAL AGENT	08/17/2022
RECEIVING PARTY DATA	
Name:	ATOTECH DEUTSCHLAND GMBH & CO. KG (F/K/A ATOTECH DEUTSCHLAND GMBH)
Street Address:	ERASMUSSTRASSE 20
City:	BERLIN
State/Country:	GERMANY
Postal Code:	10553
Name:	ATOTECH USA, LLC
Street Address:	1750 OVERVIEW DRIVE
City:	ROCK HILL
State/Country:	SOUTH CAROLINA
Postal Code:	29730
PROPERTY NUMBERS Total: 261	
Property Type	Number
Patent Number:	6887113
Patent Number:	6652728
Patent Number:	6059919
Patent Number:	6099711
Patent Number:	6083374
Patent Number:	6168691
Patent Number:	6425996
Patent Number:	6562149
Patent Number:	6508926
Patent Number:	6129830
Patent Number:	6723385
Patent Number:	7138043
Patent Number:	6926813
Patent Number:	7033468
Patent Number:	6919014

PATENT

REEL: 061521 FRAME: 0103

507446835

Property Type	Number
Patent Number:	7153449
Patent Number:	7074315
Patent Number:	6902765
Patent Number:	8540853
Patent Number:	8277602
Patent Number:	7473344
Patent Number:	7563352
Patent Number:	6790265
Patent Number:	7407689
Patent Number:	7223299
Patent Number:	7442286
Patent Number:	7494578
Patent Number:	5876517
Patent Number:	6407047
Patent Number:	6063172
Patent Number:	6086779
Patent Number:	6361823
Patent Number:	6506314
Patent Number:	6436269
Patent Number:	7449089
Patent Number:	6899803
Patent Number:	8262811
Patent Number:	6238529
Patent Number:	6350362
Patent Number:	8656858
Patent Number:	7955487
Patent Number:	7025867
Patent Number:	8114263
Patent Number:	8435360
Patent Number:	8337606
Patent Number:	8945298
Patent Number:	8679316
Patent Number:	6811819
Patent Number:	8192636
Patent Number:	8764916
Patent Number:	8545687
Patent Number:	6800121
Patent Number:	8231743

Property Type	Number
Patent Number:	7588675
Patent Number:	7520973
Patent Number:	7615256
Patent Number:	8784634
Patent Number:	8187448
Patent Number:	7815777
Patent Number:	8137575
Patent Number:	6478886
Patent Number:	7767065
Patent Number:	8475874
Patent Number:	7887930
Patent Number:	7384901
Patent Number:	9263609
Patent Number:	9057145
Patent Number:	7786303
Patent Number:	7993486
Patent Number:	8927899
Patent Number:	8293092
Patent Number:	8567590
Patent Number:	6379517
Patent Number:	7650897
Patent Number:	7872130
Patent Number:	8460534
Patent Number:	8202424
Patent Number:	7842403
Patent Number:	8202567
Patent Number:	8152914
Patent Number:	8323769
Patent Number:	8557100
Patent Number:	9016230
Patent Number:	8759120
Patent Number:	8405833
Patent Number:	8951363
Patent Number:	7361262
Patent Number:	7662266
Patent Number:	9322107
Patent Number:	9005373
Patent Number:	8647491

Property Type	Number
Patent Number:	8304658
Patent Number:	8828278
Patent Number:	8715780
Patent Number:	8758634
Patent Number:	8986789
Patent Number:	8819930
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Patent Number:	8507376
Patent Number:	8894835
Patent Number:	8871631
Patent Number:	8648601
Patent Number:	8491713
Patent Number:	9057141
Patent Number:	8801844
Patent Number:	8987910
Patent Number:	9332652
Patent Number:	9076773
Patent Number:	8888903
Patent Number:	9089062
Patent Number:	9181622
Patent Number:	9051643
Patent Number:	8961670
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Patent Number:	9175399
Patent Number:	9222192
Patent Number:	9331040
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Patent Number:	6215011
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Patent Number:	9435041
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Patent Number:	9441299
Patent Number:	9534310
Patent Number:	9435047
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Property Type	Number
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Patent Number:	9988730
Patent Number:	10219391
Patent Number:	9790607
Patent Number:	9783891
Patent Number:	8962086
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Patent Number:	6695961
Patent Number:	6645557
Patent Number:	6602440
Patent Number:	6593249
Patent Number:	6585812
Patent Number:	6579591
Patent Number:	6506293
Patent Number:	6463787
Patent Number:	6451498
Patent Number:	6403168
Patent Number:	6395163
Patent Number:	6365031
Patent Number:	6336962
Patent Number:	6325910
Patent Number:	6319383
Patent Number:	6284309
Patent Number:	6240934
Patent Number:	6235182
Patent Number:	6221440
Patent Number:	6217736
Patent Number:	6186316
Patent Number:	6179984
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Patent Number:	6144890
Patent Number:	6132584
Patent Number:	6120672
Patent Number:	6077359
Patent Number:	6071400

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Patent Number:	6048585
Patent Number:	6045874
Patent Number:	6016817
Patent Number:	D822724
Patent Number:	10196530
Patent Number:	9930786
Patent Number:	10774437
Patent Number:	10006135
Patent Number:	10151980
Patent Number:	10407793
Patent Number:	9909216
Patent Number:	10260161
Patent Number:	9960051
Patent Number:	10538850
Patent Number:	10745568
Patent Number:	10767275
Patent Number:	10633755
Patent Number:	10407788
Patent Number:	10753007
Patent Number:	10793962
Patent Number:	10619251
Patent Number:	10456813
Patent Number:	10832997
Patent Number:	10867895
Patent Number:	10494732
Patent Number:	10377947
Patent Number:	10604861
Patent Number:	10832929
Patent Number:	10882842
Patent Number:	9669361
Patent Number:	9593247
Patent Number:	9551073
Patent Number:	10513780
Patent Number:	10477700
Patent Number:	10249572
Application Number:	15748203
Application Number:	15758754
Application Number:	15774299

Property Type	Number
Application Number:	16092459
Application Number:	16320123
Application Number:	16291586
Application Number:	16345747
Application Number:	16466817
Application Number:	16477912
Application Number:	16489392
Application Number:	16495122
Application Number:	16679396
Application Number:	16624960
Application Number:	16634974
Application Number:	16635568
Application Number:	16772339
Application Number:	16963522
Application Number:	16961940
Application Number:	17052545
Application Number:	17005693
Application Number:	15734257

CORRESPONDENCE DATA

Fax Number: (202)263-7507

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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ATTORNEY DOCKET NUMBER:	28804.14400
NAME OF SUBMITTER:	JAVIER J. RAMOS
SIGNATURE:	/Javier J. Ramos/
DATE SIGNED:	08/18/2022

Total Attachments: 26

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**TERMINATION AND RELEASE
OF SECURITY INTEREST IN INTELLECTUAL PROPERTY**

This Termination and Release of security interests in intellectual property ("Intellectual Property Release") is made as of August 17, 2022, by **GOLDMAN SACHS BANK USA** as collateral agent (the "Collateral Agent"), in favor of **ATOTECH DEUTSCHLAND GMBH**, a company organized and existing under the laws of Germany, and **ATOTECH USA, LLC**, a Delaware limited liability company (the "Grantors" and each, a "Grantor").

W I T N E S S E T H:

WHEREAS, the Grantors entered into an Intellectual Property Security Agreement granting security interests in certain intellectual property, dated as of March 18, 2021 (as amended, amended and restated, supplemented or otherwise modified from time to time, the "Intellectual Property Security Agreement"), with the Collateral Agent.

WHEREAS, for the purpose of recording the security interest with respect to the Released Collateral (as defined below), the Intellectual Property Security Agreement was recorded with the United States Patent and Trademark Office on March 18, 2021 at Reel/Frame 055650/0093 (patents) and at Reel/Frame 7225/0541 (trademarks).

Capitalized terms used but not otherwise defined herein have the meanings given to them in the Intellectual Property Security Agreement.

WHEREAS, the Grantors granted the Collateral Agent for the ratable benefit of the holders of the Secured Obligations (as defined in the Security Agreement described in the Intellectual Property Security Agreement), under the terms of the Intellectual Property Security Agreement, a continuing security interest (the "Security Interest") in favor of the Collateral Agent, in and to such Grantor's right and interest in and to the Collateral (as defined in the Intellectual Property Security Agreement).

WHEREAS, the Collateral Agent has agreed to terminate and release its security interest in and to (i) all patents and patent applications included in the Collateral, including, without limitation, those set forth in Schedule A, (ii) all trademark and service mark registrations and applications included in the Collateral, including, without limitation, those trademark and service mark registrations and applications listed on Schedule B, (iii) all copyrights, whether registered or unregistered, included in the Collateral, including, without limitation, those copyright registrations and applications and exclusive copyright licenses listed on Schedule C, (iv) all reissues, divisions, continuations, continuations-in-part, extensions, renewals and reexaminations of any of the foregoing, all rights in the foregoing provided by international treaties or conventions, all rights corresponding thereto throughout the world and all other rights of any kind whatsoever of any Grantor accruing thereunder or pertaining thereto, (v) any and all claims for damages and injunctive relief for past, present and future infringement, dilution, misappropriation, violation, misuse or breach with respect to any of the foregoing, with the right, but not the obligation, to sue for and collect, or otherwise recover, such damages, and (vi) any and all proceeds of, collateral for, income, royalties and other payments now or hereafter due and payable with respect to, and supporting obligations relating to, any and all of the Collateral of or arising from any of the foregoing (collectively, the "Released Collateral").

NOW, THEREFORE, in consideration of the foregoing and intending to be legally bound, the Collateral Agent, for itself and on behalf of the holders of the Secured Obligations, in association with the security interest under the Security Agreement, hereby, without recourse and without representation or warranty of any kind (either express or implied), cancels, releases, terminates and discharges any and all of its right, title and interest in the Released Collateral of each Grantor, and assigns, transfers and conveys to each Grantor any and all of its right, title and interest in such Released Collateral, as applicable.

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IN WITNESS WHEREOF, the Collateral Agent has caused this Intellectual Property Release to be executed as of the day and year first written above.

GOLDMAN SACHS BANK USA,
as Collateral Agent

By:



Authorized Signatory Douglas T. Fennell
Authorized Signatory

SCHEDULE A

Patents

Issued Patents:

Owner	Title	Patent No.	Issue Date
ATOTECH DEUTSCHLAND GMBH	CONTACT ELEMENT	6887113	03-May-2005
ATOTECH DEUTSCHLAND GMBH	Aqueous, alkaline, cyanide-free zinc (alloy) plating bath containscations polycondensate of N,N'-bis(dialkylaminoalkyl)urea anddihaloalkane.	6652728	25-Nov-2003
ATOTECH DEUTSCHLAND GMBH	FILM-STRIPPING PROCESS	6059919	09-May-2000
ATOTECH DEUTSCHLAND GMBH	PROCESS FOR THE ELECTROLYTIC DEPOSITION OF METAL LAYERS	6099711	08-Aug-2000
ATOTECH DEUTSCHLAND GMBH	PROCESS FOR MAINTAINING A CONSTANT CONCENTRATION OF SUBSTANCES IN AN ELECTROPLATING BATH	6083374	04-Jul-2000
ATOTECH DEUTSCHLAND GMBH	PROCESS AND SYSTEM FOR ELECTROCHEMICAL TREATMENT OF LONG STRETCHED-OUT ITEMS	6168691	02-Jan-2001
ATOTECH DEUTSCHLAND GMBH	Aqueous bath for electrolytic copper plating.	6425996	30-Jul-2002
ATOTECH DEUTSCHLAND GMBH	PROCESS AND SOLUTION FOR THE PRELIMINARY TREATMENT OF COPPER SURFACES	6562149	13-May-2003
ATOTECH DEUTSCHLAND GMBH	Device for partial electrochemical treatment of bar-shaped objects.	6508926	21-Jan-2003
ATOTECH DEUTSCHLAND GMBH	PROCESS FOR THE ELECTROLYTIC DEPOSITION OF COPPER LAYERS	6129830	10-Oct-2000
ATOTECH DEUTSCHLAND GMBH	Process for the preliminary treatment of copper surfaces.	6723385	20-Apr-2004
ATOTECH DEUTSCHLAND GMBH	METHOD FOR APPLYING A METAL LAYER TO A LIGHT METAL SURFACE	7138043	21-Nov-2006
ATOTECH DEUTSCHLAND GMBH	Elektrisches Kontaktierelement aus elastischem Werkstoff.Electrical contact element made of an elastic material.	6926813	09-Aug-2005
ATOTECH DEUTSCHLAND GMBH	Rotary Element for making electrical contact	7033468	25-Apr-2006
ATOTECH DEUTSCHLAND GMBH	Acid galvanic nickel bath	6919014	19-Jul-2005
ATOTECH DEUTSCHLAND GMBH	Acidic Treatment Liquid and Method of treating Copper Surfaces.	7153449	26-Dec-2006
ATOTECH DEUTSCHLAND GMBH	COPPER BATH AND METHOD	7074315	11-Jul-2006

Owner	Title	Patent No.	Issue Date
	OF DEPOSITING A MATT COPPER COATING		
ATOTECH DEUTSCHLAND GMBH	METHOD FOR ELECTROLESS NICKEL PLATING	6902765	07-Jun-2005
ATOTECH DEUTSCHLAND GMBH	VERTICAL SYSTEM FOR THE PLATING TREATMENT OF A WORK PIECE AND METHOD FOR CONVEYING THE WORK PIECE	8540853	24-Sep-2013
ATOTECH DEUTSCHLAND GMBH	APPARATUS AND METHOD FOR THE WET CHEMICAL TREATMENT OF A PRODUCT AND METHOD FOR INSTALLING A FLOW MEMBER INTO THE APPARATUS (Lamellenanströmer)	8277602	02-Oct-2012
ATOTECH DEUTSCHLAND GMBH	Segmented counter electrode for an electrolytic treatment system	7473344	06-Jan-2009
ATOTECH DEUTSCHLAND GMBH	Method and Conveyorized System for Electrolytically Processing Work Pieces	7563352	21-Jul-2009
ATOTECH DEUTSCHLAND GMBH	Aqueous Alkaline Zincate Solution and Methods	6790265	14-Sep-2004
ATOTECH DEUTSCHLAND GMBH	AQUEOUS ACIDIC IMMERSION PLATING SOLUTIONS AND METHODS FOR PLATING ALUMINUM AND ALLOYS	7407689	05-Aug-2008
ATOTECH DEUTSCHLAND GMBH	COMPOSITION AND PROCESS FOR IMPROVING THE ADHESION OF A SICCATIVE ORGANIC COATING COMPOSITIONS TO METAL SURFACES.	7223299	29-May-2007
ATOTECH DEUTSCHLAND GMBH	BATHS, SYSTEMS AND PROCESSES FOR ELECTROPLATING ZINC- NICKEL TERNARY AND HIGHER ALLOYS AND ARTICLES SO ELECTROPLATED	7442286	28-Oct-2008
ATOTECH DEUTSCHLAND GMBH	Iron-phosphorus electroplating bath and method.	7494578	24-Feb-2009
ATOTECH DEUTSCHLAND GMBH	Chromate-plating bath and process for finishing zinc zinc alloy or cadmium surfaces	5876517	02-Mar-1999
ATOTECH DEUTSCHLAND GMBH	Aqueous composition for desmutting aluminum comprises acid, oxidizing agent and optionally a halogenated compound.	6407047	18-Jun-2002
ATOTECH DEUTSCHLAND GMBH	Aqueous immersion plating bath and method for plating	6063172	16-May-2000

Owner	Title	Patent No.	Issue Date
ATOTECH DEUTSCHLAND GMBH	Copper etching compositions and method for etching copper	6086779	11-Jul-2000
ATOTECH DEUTSCHLAND GMBH	Process for whisker-free aqueous electroless tin plating	6361823	26-Mar-2002
ATOTECH DEUTSCHLAND GMBH	Improved adhesion of polymeric materials to metal surfaces (Durabond + BondFilm)	6506314	14-Jan-2003
ATOTECH DEUTSCHLAND GMBH	Aqueous plating bath for electrodeposition of tin-zinc alloy, comprises bath-soluble stannous salt(s), zinc salt(s) and quaternary ammonium polymer e.g. ureylene quaternary ammonium polymer.	6436269	20-Aug-2002
ATOTECH DEUTSCHLAND GMBH	CONVEYORIZED PLATING LINE AND METHOD FOR ELECTROLYTICALLY METAL PLATING A WORKPIECE	7449089	11-Nov-2008
ATOTECH DEUTSCHLAND GMBH	METHOD AND DEVICE FOR THE REGULATION OF THE CONCENTRATION OF METAL IONS IN AN ELECTROLYTE AND USE THEREOF	6899803	31-May-2005
ATOTECH DEUTSCHLAND GMBH	Aqueous passivating coating composition for zinc or zinc alloys and method for using same	8262811	11-Sep-2012
ATOTECH DEUTSCHLAND GMBH	DEVICE FOR ELECTROLYTIC TREATMENT OF PRINTED CIRCUIT BOARDS AND CONDUCTIVE FILMS	6238529	29-May-2001
ATOTECH DEUTSCHLAND GMBH	METHOD AND DEVICE FOR REGULATING THE CONCENTRATION OF SUBSTANCES IN ELECTROLYTES	6350362	26-Feb-2002
ATOTECH DEUTSCHLAND GMBH	DEVICE AND METHOD FOR CHEMICALLY AND ELECTROLYTICALLY TREATING WORK PIECES	8656858	25-Feb-2014
ATOTECH DEUTSCHLAND GMBH	DEVICE AND METHOD FOR ELECTROLYTICALLY TREATING FLAT WORK PIECES	7955487	07-Jun-2011
ATOTECH DEUTSCHLAND GMBH	DIRECT ELECTROLYTIC METALLIZATION OF NON-CONDUCTING SUBSTRATES	7025867	11-Apr-2006
ATOTECH DEUTSCHLAND GMBH	Polyvinylammonium halides and its use in galvanic copper deposition baths	8114263	14-Feb-2012
ATOTECH DEUTSCHLAND GMBH	Anti-corrosion treatment for conversion coatings	8435360	07-May-2013
ATOTECH DEUTSCHLAND GMBH	Solderability Enhancer	8337606	25-Dec-2012
ATOTECH DEUTSCHLAND GMBH	Non etching adhesion promoters	8,945,298	03-Feb-2015
ATOTECH DEUTSCHLAND GMBH	Amino acids and Peptides for use as Levellers in Copper Plating	8679316	25-Mar-2014

Owner	Title	Patent No.	Issue Date
ATOTECH DEUTSCHLAND GMBH	Aqueous Alkaline Zincate Solution and Methods	6811819	02-Nov-2004
ATOTECH DEUTSCHLAND GMBH	COMPOSITION AND METHOD FOR IMPROVED ADHESION OF POLYMERIC MATERIALS TO COPPER OR COPPER ALLOY SURFACES	8192636	05-Jun-2012
ATOTECH DEUTSCHLAND GMBH	Means for manufacturing corrosion protection coats on metal surfaces	8,764,916	01-Jul-2014
ATOTECH DEUTSCHLAND GMBH	APPARATUS AND METHOD FOR THE ELECTROLYTIC TREATMENT OF A PLATE-SHAPED PRODUCT (Plater-Single Board Production)	8545687	01-Oct-2013
ATOTECH DEUTSCHLAND GMBH	ELECTROLESS NICKERL PLATING SOLUTIONS	6800121	05-Oct-2004
ATOTECH DEUTSCHLAND GMBH	Zincate pretreatment of magnesium	8231743	31-Jul-2012
ATOTECH DEUTSCHLAND GMBH	Iron-phosphorus electroplating bath and method.	7,588,675	15-Sep-2009
ATOTECH DEUTSCHLAND GMBH	Method for Regeneration of etch cleaners containing ferric salts	7520973	21-Apr-2009
ATOTECH DEUTSCHLAND GMBH	PROCESS FOR THE TRANSFER OF POWDERS AND POWDER COATINGS TO SUBSTRATES	7615256	10-Nov-2009
ATOTECH DEUTSCHLAND GMBH	Method for depositing copper in apertures with high aspect ratios	8784634	22-Jul-2014
ATOTECH DEUTSCHLAND GMBH	Crystalline Chromium from trivalent Cr salts at high pH	8187448	29-May-2012
ATOTECH DEUTSCHLAND GMBH	Device for electric supply unit in an apparatus for electrochemical treatment	7815777	19-Oct-2010
ATOTECH DEUTSCHLAND GMBH	Control of the desmear and roughening process in the production of printed circuit boards (especially for sequential build up (SBU) or semi additive process (SAP) - technology) by means of gloss measurement.	8137575	20-Mar-2012
ATOTECH DEUTSCHLAND GMBH	Agent for sealing metallic ground coats, especially ground coats consisting of zinc or zinc alloys	6478886	12-Nov-2002
ATOTECH DEUTSCHLAND GMBH	Device and method for electrolytically treating a workpiece at least superficially electrical conducting	7767065	03-Aug-2010
ATOTECH DEUTSCHLAND GMBH	METHOD FOR CONTINUOUSLY OPERATING ACID OR ALKALINE ZINC OR ZINC ALLOY BATHS	8475874	02-Jul-2013
ATOTECH DEUTSCHLAND GMBH	Crystalline chromium deposit from high pH trivalent chromium	7887930	15-Feb-2011

Owner	Title	Patent No.	Issue Date
	plating baths		
ATOTECH DEUTSCHLAND GMBH	NITRIC ACID AND CHROMIC ACID-FREE COMPOSITONS AND PROCESS FOR CLEANING ALUMINUM AND ALUMINUM ALLOYS (Orig.)NITRIC ACID AND CHROMIC ACID-FREE COMPOSITONS AND PROCESS FOR CLEANING ALUMINUM AND ALUMINUM ALLOYS.	7384901	10-Jun-2008
ATOTECH DEUTSCHLAND GMBH	Metal plating composition and method for the deposition of Copper-Zinc-Tin suitable for manufacturing thin film solar cell	9263609	16-Feb-2016
ATOTECH DEUTSCHLAND GMBH	Online Control of galvanic bath additives	9057145	16-Jun-2015
ATOTECH DEUTSCHLAND GMBH	ACIDIC BATH FOR ELECTROLYTICALLY DEPOSITING A COPPER DEPOSIT CONTAINING HALOGENATED OR PSEUDOHALOGENATED MONOMERIC PHENAZINIUM COMPOUNDS	7786303	31-Aug-2010
ATOTECH DEUTSCHLAND GMBH	TREATMENT UNIT FOR THE WET-CHEMICAL OR ELECTROLYTIC TREATMENT OF FLAT WORKPIECES	7993486	09-Aug-2011
ATOTECH DEUTSCHLAND GMBH	METHOD OF MANUFACTURING A CIRCUIT CARRIER AND THE USE OF THE METHOD	8927899	06-Jan-2015
ATOTECH DEUTSCHLAND GMBH	Alkaline galvanizing bath comprising a filtration membrane	8293092	23-Oct-2012
ATOTECH DEUTSCHLAND GMBH	METHOD, CLIP AND DEVICE FOR TRANSPORTING AN ARTICLE TO BE TREATED IN AN ELECTROLYTIC SYSTEM (Folienklammer)	8567590	29-Oct-2013
ATOTECH DEUTSCHLAND GMBH	Electrodialytic regeneration of electroless hypophosphites involves simultaneously guiding bath liquid through dilute compartments in a cathode and anode having second electro dialysis device	6379517	30-Apr-2002
ATOTECH DEUTSCHLAND GMBH	Nozzle Arrangement	7650897	26-Jan-2010
ATOTECH DEUTSCHLAND GMBH	Mixture of oligomeric phenazinium compounds	7872130	18-Jan-2011
ATOTECH DEUTSCHLAND GMBH	Chrome(VI)-free black passivates for surfaces containing zinc	8460534	11-Jun-2013
ATOTECH DEUTSCHLAND GMBH	MICROBIAL DEGRADATION	8202424	19-Jun-2012

Owner	Title	Patent No.	Issue Date
	OF WATER-BORNE PAINT CONTAINING HIGH LEVELS OF ORGANIC SOLVENT		
ATOTECH DEUTSCHLAND GMBH	Antifriction coatings, methods of producing such coatings and articles including such coatings.	7842403	30-Nov-2010
ATOTECH DEUTSCHLAND GMBH	METHOD OF MANUFACTURING PATTERN-FORMING METAL STRUCTURES ON A CARRIER SUBSTRATE	8202567	19-Jun-2012
ATOTECH DEUTSCHLAND GMBH	Vorbehandlungsverfahren zur direkten leitfähigen Metallisierung von Nichtleitern unter Verwendung eines neuen Culinks	8152914	10-Apr-2012
ATOTECH DEUTSCHLAND GMBH	METHODS OF TREATING A SURFACE TO PROMOTE METAL PLATING AND DEVICES FORMED	8323769	04-Dec-2012
ATOTECH DEUTSCHLAND GMBH	Sulfonated fatty acid additive for electroless nickel plating	8557100	15-Oct-2013
ATOTECH DEUTSCHLAND GMBH	METHOD AND SYSTEM FOR THE TREATMENT OF FLAT FEEDSTOCK, AND DEVICE FÜR REMOVING OR KEEPING AWAY TREATMENT LIQUID (Flüssigkeitsentfernung)	9016230	28-Apr-2015
ATOTECH DEUTSCHLAND GMBH	SILICON SOLAR CELL	8,759,120	24-Jun-2014
ATOTECH DEUTSCHLAND GMBH	Measurement of Satilume Effect	8405833	26-Mar-2013
ATOTECH DEUTSCHLAND GMBH	Corrosion protection treatment for surfaces made of zinc and zinc coatings	8951363	10-Feb-2015
ATOTECH DEUTSCHLAND GMBH	Acidic plating bath and process for electrolytic deposition and process for deposition of satin bright nickel layers	7361262	22-Apr-2008
ATOTECH DEUTSCHLAND GMBH	Device and method for regenerating an electroless nickel plating bath	7,662,266	16-Feb-2010
ATOTECH DEUTSCHLAND GMBH	Polymers with amino end groups and their use as additives for galvanic zinc and zinc alloy baths	9322107	26-Apr-2016
ATOTECH DEUTSCHLAND GMBH	Treatment solution for producing chromium- and cobalt-free black conversion layers	9005373	14-Apr-2015
ATOTECH DEUTSCHLAND GMBH	White Bronze Plating Bath containing N-methylpyrrolidone	8647491	11-Feb-2014
ATOTECH DEUTSCHLAND GMBH	Highly corrosion resistant NiAu coatings	8304658	06-Nov-2012
ATOTECH DEUTSCHLAND GMBH	Use of thiourea-derivatives for deposition of homogeneous CISE layers	8,828,278	09-Sep-2014
ATOTECH DEUTSCHLAND GMBH	Powder Dispenser for RCF Foil	8,715,780	06-May-2014

Owner	Title	Patent No.	Issue Date
	Manufacture		
ATOTECH DEUTSCHLAND GMBH	Composition and method for micro etching of copper and copper alloys	8,758,634	24-Jun-2014
ATOTECH DEUTSCHLAND GMBH	Stress-reduced Ni-Pd Stacks for Bondable or Solderable Waver Surfaces	8986789	24-Mar-2015
ATOTECH DEUTSCHLAND GMBH	Method for Improving the Adhesion Between Silver Surfaces and Resin Materials	8819930	02-Sep-2014
ATOTECH DEUTSCHLAND GMBH	Method to form solder alloy deposits on substrates	8497200	30-Jul-2013
ATOTECH DEUTSCHLAND GMBH	Method to form solder deposits on substrates	8507376	13-Aug-2013
ATOTECH DEUTSCHLAND GMBH	A METHOD OF INSPECTING A METAL COATING AND A METHOD FOR ANALYTICAL CONTROL OF A DEPOSITION ELECTROLYTE SERVING TO DEPOSIT SAID METAL COATING	8,894,835	25-Nov-2014
ATOTECH DEUTSCHLAND GMBH	METHOD TO FORM SOLDER DEPOSITS ON SUBSTRATES	8,871,631	28-Oct-2014
ATOTECH DEUTSCHLAND GMBH	Method for control of stabilizer additives in electroless metal and metal alloy plating electrolytes	8648601	11-Feb-2014
ATOTECH DEUTSCHLAND GMBH	Solution and process for increasing the solderability and corrosion resistance of metal or metal alloy surface	8491713	23-Jul-2013
ATOTECH DEUTSCHLAND GMBH	Immersion Tin Plating Bath	9,057,141	16-Jun-2015
ATOTECH DEUTSCHLAND GMBH	Autocatalytic plating bath composition for deposition of tin and tin alloys	8,801,844	12-Aug-2014
ATOTECH DEUTSCHLAND GMBH	Direct Pure Pd surface finish designed for copper wire bonding on printed circuit boards and IC-substrates	8987910	24-Mar-2015
ATOTECH DEUTSCHLAND GMBH	Differential tin etch	9332652	03-May-2016
ATOTECH DEUTSCHLAND GMBH	Wire bondable surface for microelectronic devices	9076773	07-Jul-2015
ATOTECH DEUTSCHLAND GMBH	Electroless Palladium Plating Bath Composition	8,888,903	18-Nov-2014
ATOTECH DEUTSCHLAND GMBH	Method for electroless nickel-phosphorous alloy deposition onto flexible substrates	9089062	21-Jul-2015
ATOTECH DEUTSCHLAND GMBH	Process for metallizing nonconductive plastic surfaces (Rack protection)	9181622	10-Nov-2015
ATOTECH DEUTSCHLAND GMBH	Process for metallizing nonconductive plastic surfaces	9051643	09-Jun-2015
ATOTECH DEUTSCHLAND GMBH	Alkaline plating bath for electroless deposition of cobalt alloys (Bleifreies außenstromloses	8,961,670	24-Feb-2015

Owner	Title	Patent No.	Issue Date
	Cobaltwolframbad)		
ATOTECH DEUTSCHLAND GMBH	Method and regeneration apparatus for regenerating a plating composition which is suitable for depositing at least one first metal on a substrate	9249510	02-Feb-2016
ATOTECH DEUTSCHLAND GMBH	Plating bath for electroless deposition of nickel layers	9175399	03-Nov-2015
ATOTECH DEUTSCHLAND GMBH	Holding Device for a Product and Treatment Method (Waferhalter)	9222192	29-Dec-2015
ATOTECH DEUTSCHLAND GMBH	Manufacture of coated copper pillars	9331040	03-May-2016
ATOTECH DEUTSCHLAND GMBH	PROCESS FOR IMPROVING THE CORROSION RESISTANCE OF METAL SURFACES AND METAL PIECES HAVING IMPROVED CORRSION RESISTANCE	7,101,469	05-Sep-2006
ATOTECH DEUTSCHLAND GMBH	High current density semi-bright and bright zinc sulfur-acid salt electrogalvanizing process and composition	5788822	04-Aug-1998
ATOTECH DEUTSCHLAND GMBH	Apparatus and method for recovering photoresist developers and strippers	5753135	19-May-1998
ATOTECH DEUTSCHLAND GMBH	Silane compositions	6215011	10-Apr-2001
ATOTECH DEUTSCHLAND GMBH	X-Plating (Redox)	9526183	20-Dec-2016
ATOTECH DEUTSCHLAND GMBH	Method and regeneration apparatus for regenerating a plating composition which is suitable for depositing at least one first metal on a substrate	9435041	06-Sep-2016
ATOTECH DEUTSCHLAND GMBH	METHOD FOR CATHODIC CORROSION PROTECTION OF CHROMIUM SURFACES	9441306	September 13, 2016
ATOTECH DEUTSCHLAND GMBH	METHOD FOR ACTIVATING A COPPER SURFACE FOR ELECTROLESS PLATING	9441299	September 13, 2016
ATOTECH DEUTSCHLAND GMBH	Device for vertical galvanic metal, preferably copper, deposition on a substrate and a container suitable for receiving such a device (Baukasten)	9534310	January 3, 2017
ATOTECH DEUTSCHLAND GMBH	PROCESS FOR CORROSION PROTECTION OF IRON CONTAINING MATERIALS	9435047	September 6, 2016
ATOTECH DEUTSCHLAND GMBH	AQUEOUS COMPOSITION FOR ETCHING OF COPPER AND COPPER ALLOYS	9441304	September 13, 2016
ATOTECH DEUTSCHLAND GMBH	METHOD FOR MANUFACTURE OF WIRE BONDABLE AND SOLDERABLE SURFACES ON NOBLE METAL ELECTRODES	9401466	July 26, 2016

Owner	Title	Patent No.	Issue Date
ATOTECH DEUTCHLAND GMBH	DEVICE AND METHOD FOR THE TREATMENT OF FLAT MATERIAL TO BE TREATED (Niveauregulierung)	9394622	July 19, 2016
ATOTECH DEUTCHLAND GMBH	Electroless Nickel Plating Bath (Low temperature NiP)	9399820	July 26, 2016
ATOTECH DEUTSCHLAND GMBH	METHOD FOR COPPER PLATING	9506158	November 29, 2016
ATOTECH DEUTSCHLAND GMBH	SOLUTION AND PROCESS FOR THE PRE-TREATMENT OF COPPER SURFACES USING AN N-ALKOXYLATED ADHESION-PROMOTING COMPOUND	9504161	November 22, 2016
ATOTECH DEUTSCHLAND GMBH	METHOD FOR ELECTROLESS PLATING OF TIN AND TIN ALLOYS	9458541	October 4, 2016
ATOTECH DEUTSCHLAND GMBH	X-PLATING	9445510	September 13, 2016
ATOTECH DEUTSCHLAND GMBH	METHOD, TREATMENT STATION, AND SYSTEM FOR THE TREATMENT OF FLAT FEEDSTOCK	9713265	18-Jul-2017
ATOTECH DEUTSCHLAND GMBH	Process for forming corrosion protection layers on metal surfaces	9738790	22-Aug-2017
ATOTECH DEUTSCHLAND GMBH	ELECTROPLATING BATH AND METHOD FOR PRODUCING DARK CHROMIUM LAYERS	9689081	27-Jun-2017
ATOTECH DEUTSCHLAND GMBH	Method for electroless plating / Metallization of sputtered seed layers	9822034	21-Nov-2017
ATOTECH DEUTSCHLAND GMBH	Method of treating metal surfaces and devices formed thereby	9,763,336	12-Sep-2017
ATOTECH DEUTSCHLAND GMBH	Novel adhesion promoting agents for metallization of substrate surfaces	9920432	20-Mar-2018
ATOTECH DEUTSCHLAND GMBH	Method for manufacture of fine line circuitry	9,713,266	18-Jul-2017
ATOTECH DEUTSCHLAND GMBH	METHOD AND APPARATUS FOR ELECTROLYTICALLY DEPOSITING A DEPOSITION METAL ON A WORKPIECE	9745665	29-Aug-2017
ATOTECH DEUTSCHLAND GMBH	GALVANIC NICKEL OR NICKEL ALLOY ELECTROPLATING BATH FOR DEPOSITING A SEMI-BRIGHT NICKEL OR NICKEL ALLOY	9752244	5-Sep-2017
ATOTECH DEUTSCHLAND GMBH	Device for vertical galvanic metal deposition on a substrate (Düsenscheibe)	9,631,294	25-Apr-2017
ATOTECH DEUTSCHLAND GMBH	Copper plating bath composition	9551080	24-Jan-2017
ATOTECH DEUTSCHLAND GMBH	Plated electrical contacts for solar	9680042	13-Jun-2017

Owner	Title	Patent No.	Issue Date
	modules		
ATOTECH DEUTSCHLAND GMBH	Electroless copper plating solution	9650718	16-May-2017
ATOTECH DEUTSCHLAND GMBH	ELECTROPLATING BATH AND METHOD FOR PRODUCING DARK CHROMIUM LAYERS	10,174,432	08-Jan-2019
ATOTECH DEUTSCHLAND GMBH	Method for depositing a copper seed layer onto a barrier layer	10,077,498	18-Sep-2018
ATOTECH DEUTSCHLAND GMBH	Novel adhesion promoting process for metallisation of substrate surfaces	10,487,404	26-Nov-2019
ATOTECH DEUTSCHLAND GMBH	COPPER ELECTROPLATING METHOD	9,963,797	08-May-2018
ATOTECH DEUTSCHLAND GMBH	Composition and process for metallizing nonconductive plastic surfaces	10,174,250	08-Jan-2019
ATOTECH DEUTSCHLAND GMBH	Plating bath composition and method for electroless plating of palladium	9,758,874	12-Sep-2017
ATOTECH DEUTSCHLAND GMBH	PRE-TREATMENT PROCESS FOR ELECTROLESS PLATING	9896765	20-Feb-2018
ATOTECH DEUTSCHLAND GMBH	Method of treating metal surfaces and devices formed thereby	10375835	06-Aug-2019
ATOTECH DEUTSCHLAND GMBH	METHOD OF FORMING A METAL LAYER AND METHOD OF MANUFACTURING A SUBSTRATE HAVING SUCH METAL LAYER	9988730	5-Jun-2018
ATOTECH DEUTSCHLAND GMBH	Advanced Adhesion Promoter Process (BondFilm)	10219391	26-Feb-2019
ATOTECH DEUTSCHLAND GMBH	GALVANIC NICKEL OR NICKEL ALLOY ELECTROPLATING BATH FOR DEPOSITING A SEMI-BRIGHT NICKEL OR NICKEL ALLOY	9790607	17-Oct-2017
ATOTECH DEUTSCHLAND GMBH	Iron Boron Alloy Coatings and a Process for their Preparation	9783891	10-Oct-2017
ATOTECH DEUTSCHLAND GMBH	PROCESS FOR COATING A SURFACE OF A SUBSTRATE MADE OF NONMETALLIC MATERIAL WITH A METAL LAYER	8962086	24-Feb-2015
ATOTECH DEUTSCHLAND GMBH	PROCESS FOR COATING A SURFACE OF A SUBSTRATE MADE OF NONMETALLIC MATERIAL WITH A METAL LAYER	9249512	02-Feb-2016
ATOTECH DEUTSCHLAND GMBH	Method for reducing the optical reflectivity of a copper and copper alloy circuitry	10,448,515	15-Oct-2019
ATOTECH DEUTSCHLAND GMBH	Acidic zinc and zinc nickel alloy	10,858,747	08-Dec-2020

Owner	Title	Patent No.	Issue Date
	plating bath composition and electroplating method		
ATOTECH DEUTSCHLAND GMBH	Method and apparatus for electroplating a metal onto a substrate	10501860	10-Dec-2019
ATOTECH DEUTSCHLAND GMBH	Plating bath composition and method for electroless plating of palladium	10385458	20-Aug-2019
ATOTECH DEUTSCHLAND GMBH	WHITE BRONZE PLATING BATH USING NOVEL ADDITIVES FORMED UPON REACTION OF SECONDARY AMINES AND DIGLYCIDYL ETHERS	9399824	July 26, 2016
ATOTECH DEUTSCHLAND GMBH	METHOD, RETAINING MEANS, APPARATUS AND SYSTEM FOR TRANSPORTING A FLAT MATERIAL FEEDSTOCK, AND LOADING OR UNLOADING DEVICE	9380708	June 28, 2016
ATOTECH DEUTSCHLAND GMBH	METHOD AND DEVICE FOR THE ELECTROLYTIC TREATMENT OF ELECTRICALLY CONDUCTING STRUCTURES WHICH ARE INSULATED FROM EACH OTHER AND POSITIONED ON THE SURFACE OF ELECTRICALLY INSULATING FILM MATERIALS AND USE OF THE METHOD	6979391	December 27, 2005
ATOTECH DEUTSCHLAND GMBH	METHOD AND DEVICE FOR THE ELECTROLYTIC TREATMENT OF ELECTRICALLY CONDUCTING SURFACES SEPARATED PLATES AND FILM MATERIAL PIECES IN ADDITION TO USES OF SAID METHOD	6939455	September 6, 2005
ATOTECH DEUTSCHLAND GMBH	TREATMENT OF CIRCUIT SUPPORT WITH IMPULSE EXCITATION	6908515	June 21, 2005
ATOTECH DEUTSCHLAND GMBH	METHOD OF FORMING A CONDUCTIVE PATTERN ON DIELECTRIC SUBSTRATES	6806034	October 19, 2004
ATOTECH DEUTSCHLAND GMBH	METHOD FOR GALVANICALLY FORMING CONDUCTOR STRUCTURES OF HIGH-PURITY COPPER IN THE PRODUCTION OF INTEGRATED CIRCUITS	6793795	September 21, 2004

Owner	Title	Patent No.	Issue Date
ATOTECH DEUTSCHLAND GMBH	METHOD FOR PRODUCING MICROCOMPONENTS	6736983	May 18, 2004
ATOTECH DEUTSCHLAND GMBH	Tin whisker-free printed circuit board	6720499	April 13, 2004
ATOTECH DEUTSCHLAND GMBH	METHOD FOR PRODUCING METALLIZED SUBSTRATE MATERIALS	6706201	March 16, 2004
ATOTECH DEUTSCHLAND GMBH	METHOD FOR PRODUCING SOLDERABLE AND FUNCTIONAL SURFACES ON CIRCUIT CARRIERS	6698648	March 2, 2004
ATOTECH DEUTSCHLAND GMBH	CARRIER SERVING TO SUPPLY CURRENT TO WORKPIECES OR COUNTER-ELECTRODES THAT ARE TO BE TREATED ELECTROLYTICALLY AND A METHOD FOR ELECTROLYTICALLY TREATING WORKPIECE	6695961	February 24, 2004
ATOTECH DEUTSCHLAND GMBH	METALLIZATION OF NON-CONDUCTIVE SURFACES WITH SILVER CATALYST AND ELECTROLESS METAL COMPOSITIONS	6645557	November 11, 2003
ATOTECH DEUTSCHLAND GMBH	Method of producing copper surfaces for improved bonding, compositions used therein and articles made therefrom	6602440	August 5, 2003
ATOTECH DEUTSCHLAND GMBH	METHOD FOR FORMING A METAL PATTERN ON A DIELECTRIC SUBSTRATE	6593249	July 15, 2003
Atotech USA, LLC (f/k/a Atotech USA, Inc.)	High current density zinc sulfate electrogalvanizing process and composition	6585812	July 1, 2003
ATOTECH DEUTSCHLAND GMBH	Method of producing copper surfaces for improved bonding, compositions used therein and articles made therefrom	6579591	June 17, 2003
ATOTECH DEUTSCHLAND GMBH	PROCESS FOR THE APPLICATION OF A METAL FILM ON A POLYMER SURFACE OF A SUBJECT	6506293	January 14, 2003
ATOTECH DEUTSCHLAND GMBH	MOUNTING FOR A QUARTZ CRYSTAL	6463787	October 15, 2002
ATOTECH DEUTSCHLAND GMBH	Photosensitive composition	6451498	September 17, 2002
ATOTECH DEUTSCHLAND GMBH	Process for plating metal coatings	6403168	June 11, 2002
ATOTECH DEUTSCHLAND GMBH	PROCESS FOR THE ELECTROLYTIC PROCESSING ESPECIALLY OF FLAT ITEMS AND ARRANGEMENT FOR IMPLEMENTING THE PROCESS	6395163	May 28, 2002
ATOTECH DEUTSCHLAND GMBH	High current density zinc sulfate	6365031	April 2, 2002

Owner	Title	Patent No.	Issue Date
	electrogalvanizing process and composition		
ATOTECH DEUTSCHLAND GMBH	METHOD AND SOLUTION FOR PRODUCING GOLD COATING	6336962	January 8, 2002
ATOTECH DEUTSCHLAND GMBH	PALLADIUM COLLOID SOLUTION AND ITS UTILIZATION	6325910	December 4, 2001
ATOTECH DEUTSCHLAND GMBH	DEVICE AND METHOD FOR EVENING OUT THE THICKNESS OF METAL LAYERS ON ELECTRICAL CONTACT POINTS ON ITEMS THAT ARE TO BE TREATED	6319383	November 20, 2001
ATOTECH DEUTSCHLAND GMBH	Method of producing copper surfaces for improved bonding, compositions used therein and articles made therefrom	6284309	September 4, 2001
ATOTECH DEUTSCHLAND GMBH	METHOD AND DEVICE FOR TREATING HOLES OR RECESSES EXTENDING INTO WORKPIECES WITH LIQUID TREATMENT MEDIA	6240934	June 5, 2001
ATOTECH DEUTSCHLAND GMBH	SOLUTION FOR PRETREATMENT OF ELECTRICALLY NON-CONDUCTIVE SURFACES, AND METHOD OF COATING THE SURFACES WITH SOLID MATERIAL PARTICLES	6235182	May 22, 2001
ATOTECH DEUTSCHLAND GMBH	PROCESS FOR PLATING METAL COATINGS	6221440	April 24, 2001
ATOTECH DEUTSCHLAND GMBH	METHOD AND APPARATUS FOR ELECTROLYTICALLY TREATING A BOARD-SHAPED SUBSTRATE COMPRISING SHIELDING EDGE REGIONS OF THE SUBSTRATE DURING ELECTROLYTIC TREATMENT	6217736	April 17, 2001
ATOTECH DEUTSCHLAND GMBH	METHOD AND DEVICE FOR THE PRECISE ELECTROLYTIC DEPOSITION AND ETCHING OF METAL LAYERS ON CIRCUIT BOARDS AND CONDUCTORS FOILS IN CONTINUOUS SYSTEMS	6186316	February 13, 2001
ATOTECH DEUTSCHLAND GMBH	CIRCUITRY AND METHOD FOR AN ELECTROPLATING PLANT OR ETCHING PLANT PULSE POWER SUPPLY	6179984	January 30, 2001
ATOTECH DEUTSCHLAND GMBH	METHOD AND APPARATUS FOR ELECTROLYTICALLY	6176995	January 23, 2001

Owner	Title	Patent No.	Issue Date
	METALLISING OR ETCHING MATERIAL		
ATOTECH DEUTSCHLAND GMBH	COMPUTERIZED METHOD AND SYSTEM FOR DESIGNING AN UHOLSTERED PART	6144890	November 7, 2000
ATOTECH DEUTSCHLAND GMBH	PROCESS AND CIRCUITRY FOR GENERATING CURRENT PULSES FOR ELECTROLYTIC METAL DEPOSITION	6132584	October 17, 2000
ATOTECH DUETSCHLAND GMBH	PROCESS FOR MANUFACTURING INDUCTIVE COUNTING SYSTEMS	6120672	September 19, 2000
ATOTECH DEUTSCHLAND GMBH	PROCEDURE AND DEVICE FOR THE CHEMICAL AND ELECTROLYTIC TREATMENT OF PRINTED CIRCUIT BOARDS AND CONDUCTOR FILMS	6077359	June 20, 2000
ATOTECH DEUTSCHLAND GMBH	METHOD AND DEVICE FOR THE ELECTROCHEMICAL TREATMENT WITH TREATMENT LIQUID OF AN ITEM TO BE TREATED	6071400	June 6, 2000
ATOTECH DEUTSCHLAND GMBH	REMOVAL OF ORTHOPHOSPHITE IONS FROM ELECTROLESS NICKEL PLATING BATHS	6048585	April 11, 2000
Atotech USA, LLC (f/k/a Atotech USA, Inc.)	Fluid delivery method	6045874	April 4, 2000
ATOTECH DEUTSCHLAND GMBH	METHOD AND DEVICE FOR THE TREATMENT OF PLATE-SHAPED WORKPIECES HAVING SMALL HOLES	6016817	January 25, 2000
ATOTECH DEUTSCHLAND GMBH	Device for chemical and/or electrolytic (galvanic) metal deposition on a substrate (MULTIPLATE 2)	D822724	10-Jul-2018
ATOTECH DEUTSCHLAND GMBH	Method for increasing adhesion between a chromium surface and a lacquer	10,196,530	05-Feb-2019
ATOTECH DEUTSCHLAND GMBH	DESMEAR MODULE OF A HORIZONTAL PROCESS LINE AND A METHOD FOR SEPARATION AND REMOVAL OF DESMEAR PARTICLES FROM SUCH A DESMEAR MODULE	9930786	27-Mar-2018
ATOTECH DEUTSCHLAND GMBH	Method and apparatus for electrolytically depositing a deposition metal on a workpiece (Hochstromkontakt)	10774437	15-Sep-2020
ATOTECH DEUTSCHLAND GMBH	ELECTROPLATING BATH	10006135	26-Jun-2018

Owner	Title	Patent No.	Issue Date
	AND METHOD FOR PRODUCING DARK CHROMIUM LAYERS		
ATOTECH DEUTSCHLAND GMBH	Method for fine line manufacturing	10,151,980	11-Dec-2018
ATOTECH DEUTSCHLAND GMBH	SUBSTRATE HOLDER FOR VERTICAL GALVANIC METAL DEPOSITION	10,407,793	10-Sep-2019
ATOTECH DEUTSCHLAND GMBH	Plating bath compositions for electroless plating of metals and metal alloys	9909216	06-Mar-2018
ATOTECH DEUTSCHLAND GMBH	SUBSTRATE HOLDER RECEPTION APPARATUS	10,260,161	16-Apr-2019
ATOTECH DEUTSCHLAND GMBH	Activation Method for Silicon Substrates	9,960,051	01-May-2018
ATOTECH DEUTSCHLAND GMBH	Electrolytic copper plating bath compositions and a method for their use	10,538,850	20-Apr-2016
ATOTECH DEUTSCHLAND GMBH	Surface treatment composition	10745568	18-Aug-2020
ATOTECH DEUTSCHLAND GMBH	Aqueous copper plating baths and a method for deposition of copper or copper alloy onto a substrate	10,767,275	08-Sep-2020
ATOTECH DEUTSCHLAND GMBH	Copper plating bath composition and method for deposition of copper	10,633,755	28-Apr-2020
ATOTECH DEUTSCHLAND GMBH	METHOD FOR GALVANIC METAL DEPOSITION	10,407,788	10-Sep-2019
ATOTECH DEUTSCHLAND GMBH	Process for indium or indium alloy deposition and article	10,753,007	25-Aug-2020
ATOTECH DEUTSCHLAND GMBH	Aqueous indium or indium alloy plating bath and process for deposition of indium or an indium alloy	10,793,962	06-Oct-2020
ATOTECH DEUTSCHLAND GMBH	Etching solution for copper and copper alloy surfaces	10,619,251	14-Apr-2020
ATOTECH DEUTSCHLAND GMBH	A non-aqueous stripping composition and a method of stripping an organic coating from a substrate	10,456,813	29-Oct-2019
ATOTECH DEUTSCHLAND GMBH	Lead-Frame Structure, Lead-Frame, Surface Mount Electronic Device and Methods of Producing Same	10,832,997	10-Nov-2020
ATOTECH DEUTSCHLAND GMBH	Lead-Frame Structure, Lead-Frame, Surface Mount Electronic Device and Methods of Producing Same	10,867,895	15-Dec-2020
ATOTECH DEUTSCHLAND GMBH	Method for monitoring the total amount of brighteners in an acidic copper/copper alloy plating bath and controlled process for plating	10,494,732	03-Dec-2019
ATOTECH DEUTSCHLAND GMBH	Composition and process for metallizing nonconductive plastic surfaces	10,377,947	13-Aug-2019

Owner	Title	Patent No.	Issue Date
ATOTECH DEUTSCHLAND GMBH	DEVICE FOR VERTICAL GALVANIC METAL DEPOSITION ON A SUBSTRATE	10,604,861	31-Mar-2020
ATOTECH DEUTSCHLAND GMBH	Wafer-like substrate processing method and apparatus	10,832,929	10-Nov-2020
ATOTECH DEUTSCHLAND GMBH	Pyridinium compounds, a synthesis method therefor, metal or metal alloy plating baths containing said pyridinium compounds and a method for use of said metal or metal alloy plating baths	10,882,842	05-Jan-2021
ATOTECH DEUTSCHLAND GMBH	MEMBRANE ELECTROLYSIS STACK, ELECTRODIALYSIS DEVICE INCLUDING THE STACK AND METHOD FOR THE REGENERATION OF AN ELECTROLESS PLATING BATH	9,669,361	06-Jun-2017
ATOTECH DEUTSCHLAND GMBH	COMPOSITION AND METHOD FOR REMOVAL OF ORGANIC PAINT COATINGS FROM SUBSTRATES	9,593,247	14-Mar-2017
ATOTECH DEUTSCHLAND GMBH	METHOD FOR DEPOSITING A FIRST METALLIC LAYER ONTO NON-CONDUCTIVE POLYMERS	9,551,073	24-Jan-2017
ATOTECH DEUTSCHLAND GMBH	PLATING BATH COMPOSITION AND METHOD FOR ELECTROLESS PLATING OF PALLADIUM	10,513,780	24-Dec-2019
ATOTECH DEUTSCHLAND GMBH	METHOD FOR MANUFACTURING A PRINTED CIRCUIT BOARD	10,477,700	12-Nov-2019
ATOTECH DEUTSCHLAND GMBH	NOVEL METHOD FOR ELECTROMAGNETIC SHIELDING AND THERMAL MANAGEMENT OF ACTIVE COMPONENTS	10,249,572	02-Apr-2019

Patent Applications:

Owner	Title	Application No.	Application Date
ATOTECH DEUTSCHLAND GMBH	Imidazolyl Urea Polymers and their Use in Metal or Metal Alloy Plating Bath Compositions	15/748,203	19-Aug-2016
ATOTECH DEUTSCHLAND GMBH	Plating bath composition for electroless plating of gold and a method for depositing a gold layer	15/758754	16-Sep-2016
ATOTECH DEUTSCHLAND GMBH	Method for monitoring the total amount of sulphur containing compounds in a metal plating	15/774,299	02-Dec-2016

Owner	Title	Application No.	Application Date
	bath		
ATOTECH DEUTSCHLAND GMBH	Process for Depositing a Metal or Metal Alloy on a Surface of a Substrate Including its Activation	16/092,459	04-May-2017
ATOTECH DEUTSCHLAND GMBH	Method for directly depositing palladium onto a non-activated surface of a gallium nitride semiconductor	16/320,123	21-Aug-2017
ATOTECH DEUTSCHLAND GMBH	MPS Nickel and Trichrome for improved corrosion resistance (Nissan Joint Patent)	16/291586	04-Mar-2019
ATOTECH DEUTSCHLAND GMBH	Transport Roller	16/345,747	21-Sep-2017
ATOTECH DEUTSCHLAND GMBH	Method of forming a solderable solder deposit on a contact pad	16/466,817	22-Dec-2017
ATOTECH DEUTSCHLAND GMBH	A method for electrolytically passivating an outermost chromium or outermost chromium alloy layer to increase corrosion resistance thereof	16/477,912	12-Feb-2018
ATOTECH DEUTSCHLAND GMBH	Automated substrate holder loading device	16/489,392	19-Feb-2018
ATOTECH DEUTSCHLAND GMBH	Controlled method for depositing a chromium or chromium alloy layer on at least one substrate	16/495,122	04-Apr-2018
ATOTECH DEUTSCHLAND GMBH	Method and apparatus for electroplating a metal onto a substrate	16/679,396	02-Dec-2015
ATOTECH DEUTSCHLAND GMBH	CLEANING SOLUTION COMPRISING A MIX OF POLYOXYALKYLENE NONIONIC SURFACTANTS FOR CLEANING METAL SURFACES	16/624,960	04-Jul-2018
ATOTECH DEUTSCHLAND GMBH	METHOD FOR ELECTROLYTICALLY DEPOSITING A ZINC-NICKEL ALLOY LAYER ON AT LEAST A SUBSTRATE TO BE TREATED	16/634,974	20-Aug-2018
ATOTECH DEUTSCHLAND GMBH	A bath and method for filling a vertical interconnect access or trench of a work piece with nickel or a nickel alloy	16/635,568	13-Sep-2018
ATOTECH DEUTSCHLAND GMBH	A method for increasing corrosion resistance of a substrate comprising an outermost chromium alloy layer	16/772,339	11-Dec-2018
ATOTECH DEUTSCHLAND GMBH	Electroless gold plating bath	16/963,522	19-Nov-2018
ATOTECH DEUTSCHLAND GMBH	Metal or metal alloy deposition composition and plating compound	16/961,940	14-Dec-2018

Owner	Title	Application No.	Application Date
ATOTECH DEUTSCHLAND GMBH	A method for increasing adhesion strength between a surface of copper or copper alloy and an organic layer	17/052,545	06-May-2019
ATOTECH DEUTSCHLAND GMBH	Aqueous indium or indium alloy plating bath and process for deposition of indium or an indium alloy	17/005,693	28-Aug-2020
ATOTECH DEUTSCHLAND GMBH	AN ACIDIC ZINC OR ZINC-NICKEL ALLOY ELECTROPLATING BATH FOR DEPOSITING A ZINC OR ZINC-NICKEL ALLOY LAYER	15/734,257	03-Jun-2019

SCHEDULE B

Trademarks

Registered Trademarks:

Owner	Mark	Registration Date	Registration No.
ATOTECH DEUTSCHLAND GMBH	ACIDCLEAN	24-Mar-2009	3593608
ATOTECH DEUTSCHLAND GMBH	ACTISALT	03-May-1966	0807896
ATOTECH DEUTSCHLAND GMBH	ALKALUME	08-Sep-1953	0579602
ATOTECH DEUTSCHLAND GMBH	ALPHA	02-Mar-1982	1191002
ATOTECH DEUTSCHLAND GMBH	ALSTAN	08-Sep-1987	1455971
ATOTECH DEUTSCHLAND GMBH	ALUMETCH	06-Aug-2002	2603970
ATOTECH DEUTSCHLAND GMBH	ALUMSEAL	16-Jul-2002	2594032
ATOTECH DEUTSCHLAND GMBH	ANOKLEEN	03-Feb-1987	1427051
ATOTECH DEUTSCHLAND GMBH	APLUS	05-Jul-2014	4762571
ATOTECH DEUTSCHLAND GMBH	ARMOR	19-Feb-1991	1635201
ATOTECH DEUTSCHLAND GMBH	Bio Booster	17-Aug-2010	3833259
ATOTECH DEUTSCHLAND GMBH	BondFilm	04-Apr-2000	2339271
ATOTECH DEUTSCHLAND GMBH	BLUCR	25-Jul-2017	5248128
ATOTECH DEUTSCHLAND GMBH	CeraBond	12-Jun-2001	2459150
ATOTECH DEUTSCHLAND GMBH	COBALLOY	25-Dec-2001	2521499
ATOTECH DEUTSCHLAND GMBH	Condimat	18-Jun-2013	4599320
ATOTECH DEUTSCHLAND	CORRO TRIBLUE	24-Apr-2007	3232176

Owner	Mark	Registration Date	Registration No.
GMBH			
ATOTECH DEUTSCHLAND GMBH	CORROSIL	09-Jan-2007	3197089
ATOTECH DEUTSCHLAND GMBH	CorroTriBlue	12-May-2009	3617969
ATOTECH DEUTSCHLAND GMBH	CUFLEX	03-Nov-1964	779,284
ATOTECH DEUTSCHLAND GMBH	CU-LINK	03-Oct-1995	1924374
ATOTECH DEUTSCHLAND GMBH	CUPRABASE	21-Apr-2009	3609295
ATOTECH DEUTSCHLAND GMBH	CUPRACID	02-Feb-1971	907002
ATOTECH DEUTSCHLAND GMBH	CUPRAETCH	12-May-2009	3617971
ATOTECH DEUTSCHLAND GMBH	CUPRAPRO	25-Aug-2009	3673371
ATOTECH DEUTSCHLAND GMBH	CUPRAPULSE	04-Jul-2000	2364524
ATOTECH DEUTSCHLAND GMBH	CupraTech	18-Aug-2015	4,796,106
ATOTECH DEUTSCHLAND GMBH	DUOZINC	25-May-1965	789867
ATOTECH DEUTSCHLAND GMBH	DURABOND	15-May-1990	1595920
ATOTECH DEUTSCHLAND GMBH	DYNACHROME	20-Apr-1999	2241064
ATOTECH DEUTSCHLAND GMBH	ECOLOZINC	03-Oct-1972	943893
ATOTECH DEUTSCHLAND GMBH	ECONO-CHROME	26-Feb-1963	745643
ATOTECH DEUTSCHLAND GMBH	ECOTRI	25-Apr-2006	3086502
ATOTECH DEUTSCHLAND GMBH	EDEN	29-Jul-2003	2742826
ATOTECH DEUTSCHLAND GMBH	ELECTROPURE	20-Oct-2020	6,177,464
ATOTECH DEUTSCHLAND GMBH	ELEVEN (fig.)	11-May-2010	3786523
ATOTECH DEUTSCHLAND GMBH	EVERPLATE	27-Mar-2001	2438138
ATOTECH DEUTSCHLAND GMBH	FERRODEX	03-Jun-1969	870598
ATOTECH DEUTSCHLAND GMBH	FUMETROL	03-Feb-1959	673349
ATOTECH DEUTSCHLAND GMBH	HIRON	14-Nov-2017	5331979
ATOTECH DEUTSCHLAND GMBH	HEEF	12-Oct-1987	1460498
ATOTECH DEUTSCHLAND GMBH	IniTech	18-Aug-2015	4,796,107
ATOTECH DEUTSCHLAND GMBH	INPULSE	16-Jul-2002	2595292
ATOTECH DEUTSCHLAND	INTERLOX	15-Mar-1960	694410

Owner	Mark	Registration Date	Registration No.
GMBH			
ATOTECH DEUTSCHLAND GMBH	KLEER AID	30-May-1972	0934772
ATOTECH DEUTSCHLAND GMBH	LUMACHROME	08-Sep-1998	2187120
ATOTECH DEUTSCHLAND GMBH	Magnify	31-Mar-2009	3596957
ATOTECH DEUTSCHLAND GMBH	MARK	18-Feb-1964	0764886
ATOTECH DEUTSCHLAND GMBH	MASTER REMOVER	12-Nov-2013	4431393
ATOTECH DEUTSCHLAND GMBH	MULTIBOND	19-Dec-1995	1943216
ATOTECH DEUTSCHLAND GMBH	NEOGANTH	27-May-1986	1394540
ATOTECH DEUTSCHLAND GMBH	NeoLink	26-Mar-2013	4,309,433
ATOTECH DEUTSCHLAND GMBH	NiccoTech	18-Aug-2015	4,796,108
ATOTECH DEUTSCHLAND GMBH	NICHEM	13-Nov-2001	2506509
ATOTECH DEUTSCHLAND GMBH	NIFLOR	11-Feb-1986	1382726
ATOTECH DEUTSCHLAND GMBH	NIFLOR	25-Jun-1985	1343698
ATOTECH DEUTSCHLAND GMBH	NIKOTECT	12-Nov-2002	2650225
ATOTECH DEUTSCHLAND GMBH	NORTEX	13-Apr-1982	1193475
ATOTECH DEUTSCHLAND GMBH	NOVIGANTH	31-Jan-1967	823240
ATOTECH DEUTSCHLAND GMBH	PallaBond	16-Oct-2012	4224620
ATOTECH DEUTSCHLAND GMBH	PD-TECH	13-Jan-1998	2128462
ATOTECH DEUTSCHLAND GMBH	PRINTOGANTH	27-May-1986	1394539
ATOTECH DEUTSCHLAND GMBH	PROTECTOSTAN	05-Jul-2011	3990390
ATOTECH DEUTSCHLAND GMBH	PROTOLUX	01-Nov-1977	1076198
ATOTECH DEUTSCHLAND GMBH	QUATRASID	17-Mar-1964	766559
ATOTECH DEUTSCHLAND GMBH	RECOTECT	12-Jun-2012	4156131
ATOTECH DEUTSCHLAND GMBH	REFLECTA	31-Oct-1972	946153
ATOTECH DEUTSCHLAND GMBH	REFLECTALLOY	23-Jul-1996	1988409
ATOTECH DEUTSCHLAND GMBH	RESISTSTRIP	24-Mar-2009	3593609
ATOTECH DEUTSCHLAND GMBH	RODIP	25-Jun-1957	647290
ATOTECH DEUTSCHLAND	ROGARD	23-Mar-1965	786989

Owner	Mark	Registration Date	Registration No.
GMBH			
ATOTECH DEUTSCHLAND GMBH	ROKLEEN	22-Oct-1963	758971
ATOTECH DEUTSCHLAND GMBH	ROPLATE	12-Sep-1967	834938
ATOTECH DEUTSCHLAND GMBH	SATILUME	05-Dec-2000	2410592
ATOTECH DEUTSCHLAND GMBH	SECURIGANTH	27-May-1986	1394538
ATOTECH DEUTSCHLAND GMBH	Semilux	28-Nov-2014	1239720
ATOTECH DEUTSCHLAND GMBH	SIGMATECH	29-Aug-2011	4188643
ATOTECH DEUTSCHLAND GMBH	SILVER-LUME	09-Sep-1958	666740
ATOTECH DEUTSCHLAND GMBH	SOLDERBOND	03-Apr-2001	2441559
ATOTECH DEUTSCHLAND GMBH	Spherolyte	10-Jan-2012	4082886
ATOTECH DEUTSCHLAND GMBH	SRHS	18-Oct-1955	614153
ATOTECH DEUTSCHLAND GMBH	StannoPure	11-Nov-2008	3529591
ATOTECH DEUTSCHLAND GMBH	SUPREME	01-Oct-1985	1363874
ATOTECH DEUTSCHLAND GMBH	TECHDIP	04-Apr-2017	5174285
ATOTECH DEUTSCHLAND GMBH	TECHSEAL	28-May-2002	2572820
ATOTECH DEUTSCHLAND GMBH	TeloTech	19-Apr-2016	4,941,850
ATOTECH DEUTSCHLAND GMBH	TINPEST GARD	29-Jan-1980	1129752
ATOTECH DEUTSCHLAND GMBH	TRICHROME	15-Jul-2008	3468468
ATOTECH DEUTSCHLAND GMBH	TRI-CHROME	04-Apr-1978	1088444
ATOTECH DEUTSCHLAND GMBH	TRIDUR	15-Feb-2011	3918383
ATOTECH DEUTSCHLAND GMBH	TRI-MAX	04-Sep-1990	1611809
ATOTECH DEUTSCHLAND GMBH	TRI-MAX (fig.)	23-Jul-1991	1651249
ATOTECH DEUTSCHLAND GMBH	TRU-PLATE	26-Apr-1977	1064214
ATOTECH DEUTSCHLAND GMBH	UNIBRITE (former UNI-BRITE)	14-Jun-1994	1839149
ATOTECH DEUTSCHLAND GMBH	UNICHROME	17-Sep-1935	328162
ATOTECH DEUTSCHLAND GMBH	UNICHROME	16-Jul-1946	422307
ATOTECH DEUTSCHLAND GMBH	UniClean	15-Sep-1998	2188776
ATOTECH DEUTSCHLAND	UNICOAT	12-Jun-2018	5492902

Owner	Mark	Registration Date	Registration No.
GMBH			
ATOTECH DEUTSCHLAND GMBH	UNIFIX	19-May-2009	3624341
ATOTECH DEUTSCHLAND GMBH	UNIPLATE	28-Mar-2000	2334982
ATOTECH DEUTSCHLAND GMBH	UniPrep	06-Dec-2005	3024158
ATOTECH DEUTSCHLAND GMBH	UniPrep	13-Dec-2005	3025193
ATOTECH DEUTSCHLAND GMBH	UniSpray	14-Mar-2006	3037242
ATOTECH DEUTSCHLAND GMBH	UniStrip	11-Apr-2006	3078258
ATOTECH DEUTSCHLAND GMBH	ZINTEK	25-Mar-2003	2699176
ATOTECH DEUTSCHLAND GMBH	ZODIAC	27-Aug-1974	991786
ATOTECH DEUTSCHLAND GMBH	ZYLITE	21-Sep-2004	2886179
ATOTECH DEUTSCHLAND GMBH	CELEROLYTE	17-Jan-17	5121644
ATOTECH DEUTSCHLAND GMBH	INNOLYTE	25-Oct-16	5066602
ATOTECH DEUTSCHLAND GMBH	SEMILUX	24-Nov-15	4857311
ATOTECH DEUTSCHLAND GMBH	VISIOPLATE	13-Oct-15	4829364
ATOTECH DEUTSCHLAND GMBH	ECOPASS	25-Aug-15	4797503
ATOTECH DEUTSCHLAND GMBH	APLUS	30-Jun-15	4762571
ATOTECH DEUTSCHLAND GMBH	ATOMPLATE	5-May-15	4729754
ATOTECH DEUTSCHLAND GMBH	ECOPACT	4-Nov-14	4630463
ATOTECH DEUTSCHLAND GMBH	CONDIMAT	9-Sep-14	4599320
ATOTECH DEUTSCHLAND GMBH	ZINNI	9-Jul-13	4362921
ATOTECH DEUTSCHLAND GMBH	SIGMATECH	14-Aug-12	4188643
ATOTECH DEUTSCHLAND GMBH	ECOGANTH	27-Dec-11	4075882
ATOTECH DEUTSCHLAND GMBH	ATOTECH	4-Nov-08	3527689
ATOTECH DEUTSCHLAND GMBH	A	20-May-08	3431500
ATOTECH DEUTSCHLAND GMBH	XENOLYTE	15-Apr-08	3411852
ATOTECH DEUTSCHLAND GMBH	TRICOTECT	30-Oct-07	3324835
ATOTECH DEUTSCHLAND GMBH	KLEERAID	3-Jul-07	3259000
ATOTECH DEUTSCHLAND	ADHEMAX	29-May-07	3247855

Owner	Mark	Registration Date	Registration No.
GMBH			
ATOTECH DEUTSCHLAND GMBH	TRISEAL	24-Oct-06	3162929
ATOTECH DEUTSCHLAND GMBH	ATOMPURE	Jun. 02, 2016	1306551

Trademark Applications:

None.

Schedule C

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None.

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