

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

Assignment ID: PATI880321

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

CONVEYING PARTY DATA

Name	Execution Date
NOVELIS INC.	03/11/2025
NOVELIS DEUTSCHLAND GMBH	03/11/2025
NOVELIS KOBLENZ GMBH	03/11/2025

RECEIVING PARTY DATA

Company Name:	WELLS FARGO BANK, NATIONAL ASSOCIATION
Street Address:	1100 Abernathy Road
Internal Address:	Suite 1600
City:	Atlanta
State/Country:	GEORGIA
Postal Code:	30328

PROPERTY NUMBERS Total: 232

Property Type	Number
Patent Number:	8043445
Patent Number:	7883591
Patent Number:	7608345
Patent Number:	7998402
Patent Number:	7559353
Patent Number:	8088234
Patent Number:	8608876
Patent Number:	8152943
Patent Number:	8877123
Patent Number:	8158273
Patent Number:	9039848
Patent Number:	8455110
Patent Number:	8784999
Patent Number:	9255315
Patent Number:	9890448
Patent Number:	11958266
Patent Number:	8002913

PATENT

Property Type	Number
Patent Number:	7407714
Patent Number:	7191032
Patent Number:	11821061
Patent Number:	11065843
Patent Number:	10837086
Patent Number:	10883774
Patent Number:	10799926
Patent Number:	11180838
Patent Number:	11213870
Patent Number:	11638941
Patent Number:	11426777
Patent Number:	11519076
Patent Number:	10835954
Patent Number:	11649529
Patent Number:	12000031
Patent Number:	10876662
Patent Number:	10926319
Patent Number:	11466351
Patent Number:	11932928
Patent Number:	10934610
Patent Number:	11192159
Patent Number:	10953447
Patent Number:	10814365
Patent Number:	11242586
Patent Number:	11499213
Patent Number:	11377721
Patent Number:	10836584
Patent Number:	11788178
Patent Number:	11543184
Patent Number:	11920229
Patent Number:	11383296
Patent Number:	11520360
Patent Number:	11549683
Patent Number:	11466352
Patent Number:	11814713
Patent Number:	12043887
Patent Number:	11826985
Patent Number:	11377258

Property Type	Number
Patent Number:	11698226
Patent Number:	11192175
Patent Number:	10946437
Patent Number:	11203801
Patent Number:	11268765
Patent Number:	11746400
Patent Number:	11766846
Patent Number:	11590565
Patent Number:	12011758
Patent Number:	11932924
Patent Number:	11911815
Patent Number:	11925973
Patent Number:	11932925
Patent Number:	11878339
Patent Number:	11874063
Patent Number:	12151285
Patent Number:	12030114
Patent Number:	12179248
Patent Number:	11951536
Patent Number:	11951534
Patent Number:	12030116
Patent Number:	12044476
Patent Number:	11747015
Patent Number:	12083585
Patent Number:	12202011
Patent Number:	12186798
Patent Number:	8236120
Application Number:	63714185
Application Number:	17757032
Application Number:	17757809
Application Number:	17758599
Application Number:	17996702
Application Number:	17999988
Application Number:	18000000
Application Number:	18036177
Application Number:	18577728
Application Number:	15674680
Application Number:	15787098

Property Type	Number
Application Number:	16168029
Application Number:	16168146
Application Number:	16190761
Application Number:	16428137
Application Number:	16559142
Application Number:	16566283
Application Number:	16697518
Application Number:	16875472
Application Number:	17594957
Application Number:	17596938
Application Number:	17596944
Application Number:	17596947
Application Number:	17632422
Application Number:	17640745
Application Number:	17757272
Application Number:	17757666
Application Number:	17758635
Application Number:	17758859
Application Number:	17759127
Application Number:	17759178
Application Number:	17759424
Application Number:	17766091
Application Number:	17806388
Application Number:	17810438
Application Number:	17811158
Application Number:	17820322
Application Number:	17904240
Application Number:	17904303
Application Number:	17904307
Application Number:	17904909
Application Number:	17908765
Application Number:	17908787
Application Number:	17915406
Application Number:	17995431
Application Number:	17996371
Application Number:	17996563
Application Number:	17996645
Application Number:	17998590

Property Type	Number
Application Number:	17998601
Application Number:	18000705
Application Number:	18001621
Application Number:	18003054
Application Number:	18005712
Application Number:	18037584
Application Number:	18037735
Application Number:	18041297
Application Number:	18043851
Application Number:	18044262
Application Number:	18046248
Application Number:	18157932
Application Number:	18253708
Application Number:	18258670
Application Number:	18264334
Application Number:	18272179
Application Number:	18346588
Application Number:	18430893
Application Number:	18433819
Application Number:	18459340
Application Number:	18487373
Application Number:	18548290
Application Number:	18554193
Application Number:	18555147
Application Number:	18555401
Application Number:	18555576
Application Number:	18556164
Application Number:	18556169
Application Number:	18645922
Application Number:	18666462
Application Number:	18682286
Application Number:	18689801
Application Number:	18691283
Application Number:	18698118
Application Number:	18698239
Application Number:	18705465
Application Number:	18722840
Application Number:	18726538

Property Type	Number
Application Number:	18775494
Application Number:	18832102
Application Number:	18837809
Application Number:	18853884
Application Number:	18862270
Application Number:	18864968
Application Number:	18938940
Application Number:	18969727
Application Number:	18973419
Application Number:	19004833
Application Number:	18686967
Application Number:	63550711
Application Number:	63551182
Application Number:	63557099
Application Number:	63557710
Application Number:	63558181
Application Number:	63561366
Application Number:	63562385
Application Number:	63567699
Application Number:	63568025
Application Number:	63568062
Application Number:	63569854
Application Number:	63570366
Application Number:	63631561
Application Number:	63632087
Application Number:	63642334
Application Number:	63648718
Application Number:	63648756
Application Number:	63649584
Application Number:	63650503
Application Number:	63650554
Application Number:	63666546
Application Number:	63666810
Application Number:	63686479
Application Number:	63686498
Application Number:	63702926
Application Number:	63702933
Application Number:	63703268

Property Type	Number
Application Number:	63708942
Application Number:	63716322
Application Number:	63716327
Application Number:	63717590
Application Number:	63719944
Application Number:	63720975
Application Number:	63721185
Application Number:	63721685
Application Number:	63722193
Application Number:	63728281
Application Number:	63728292
Application Number:	63736016
Application Number:	63709817
Application Number:	18851117
Application Number:	18866600
Application Number:	18846033
Application Number:	18879106
Application Number:	18859057
Application Number:	63743799
Application Number:	63753727
Application Number:	63751700
Application Number:	18996333
Application Number:	19027691
Application Number:	18948049
Patent Number:	7648776

CORRESPONDENCE DATA

Fax Number: 2127352000

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

Phone: 2127352811

Email: mribando@skadden.com

Correspondent Name: Ms. Monique L Ribando

Address Line 1: One Manhattan West

Address Line 4: New York, NEW YORK 10001-8602

ATTORNEY DOCKET NUMBER: 597600/39

NAME OF SUBMITTER: Ms. MONIQUE RIBANDO

SIGNATURE: /Ms. MONIQUE RIBANDO/

DATE SIGNED: 03/12/2025

Total Attachments: 18

source=006A - United States - Novelis_-_WF - (ABL) Patent_Security_Agreement - Executed#page1.tiff
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SUPPLEMENTAL PATENT SECURITY AGREEMENT

This SUPPLEMENTAL PATENT SECURITY AGREEMENT, dated as of March 11, 2025 (“Patent Security Agreement”), by NOVELIS INC., a corporation amalgamated under the Canada Business Corporations Act, having its business address at One Phipps Plaza, 3550 Peachtree Rd, Suite 1100, Atlanta, GA 30326, NOVELIS DEUTSCHLAND GMBH, a private limited company (Gesellschaft mit beschränkter Haftung) organized under the laws of Germany registered with the commercial register of the local court in Göttingen, Germany under HRB 772, having its business address at Hannoversche Straße 1, 37075 Göttingen, Germany (“Deutschland”) and NOVELIS KOBLENZ GMBH, a private limited company (Gesellschaft mit beschränkter Haftung) organized under the laws of Germany, having its business address at Carl-Spaeter-Str. 10, 56070 Koblenz, Germany which is registered in the commercial register (Handelsregister) at the local court (Amtsgericht) of Koblenz under HRB 4239 (“Koblenz,” and together with Deutschland, the “German Assignors”) (individually, an “Assignor,” and, collectively, the “Assignors”), in favor of WELLS FARGO BANK, NATIONAL ASSOCIATION, a National Banking Association located at 1100 Abernathy Road, Suite 1600, Atlanta, GA 30328, in its capacity as collateral agent pursuant to the Credit Agreement (in such capacity, the “Assignee”).

W I T N E S S E T H:

WHEREAS, reference is made to the Amended and Restated Security Agreement, dated as of May 13, 2013, made by each Assignor and the other Borrowers and Guarantors from time to time party thereto, in favor of Assignee (as amended, amended and restated, supplemented or otherwise modified from time to time, the “Security Agreement”);

NOW, THEREFORE, in consideration of the foregoing premises and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each Assignor and the Assignee hereby agree as follows:

SECTION 1. Defined Terms. Capitalized terms used but not otherwise defined herein shall have the meanings given to them in the Security Agreement, either directly or by reference. For purposes of this Patent Security Agreement, the term “Patents” shall mean, collectively, all patents, patent applications, certificates of inventions, industrial designs and rights corresponding thereto throughout the world (whether established or registered or recorded in the United States or any other country or any political subdivision thereof), together with any and all (i) rights and privileges arising under applicable law with respect to any of the foregoing, (ii) inventions and improvements described and claimed therein, (iii) reissues, divisions, continuations, renewals, extensions and continuations-in-part thereof and amendments thereto, (iv) income, fees, royalties, damages, claims and payments now or hereafter due and/or payable thereunder and with respect thereto including damages and payments for past, present or future infringements or other violations thereof, (v) rights corresponding thereto throughout the world and (vi) rights to sue for past, present or future infringements or other violations thereof.

SECTION 2. Grant of Security Interest in Patent Collateral. As collateral security for the payment and performance in full of all the Secured Obligations, each Assignor hereby pledges and grants to the Assignee for the benefit of the Secured Parties, a lien on and security interest in all of the right, title and interest of such Assignor in, to and under the following property, wherever located, and whether now existing or hereafter arising or acquired from time to time (collectively, the “Pledged Patent Collateral”):

(a) all Patents of such Assignor, including, without limitation, the registered and applied-for Patents of such Assignor listed on Schedule I attached hereto; and

(b) all Proceeds and products of each of the foregoing and all accessions to, substitutions and replacements for, and rents, profits and products of, each of the foregoing, and any and all Proceeds of any insurance, indemnity, warranty or guaranty payable to such Assignor from time to time with respect to any of the foregoing.

Notwithstanding anything to the contrary contained in clauses (a) and (b) above, the security interest created by this Patent Security Agreement shall not extend to any Excluded Property.

SECTION 3. Security Agreement. The lien and security interest granted pursuant to this Patent Security Agreement is granted in conjunction with the lien and security interest granted to the Assignee pursuant to the Security Agreement and Assignors hereby acknowledge and affirm that the rights and remedies of the Assignee with respect to the lien and security interest in the Patents made and granted hereby are more fully set forth in the Security Agreement. In the event that any provision of this Patent Security Agreement is deemed to conflict with the Security Agreement, the provisions of the Security Agreement shall control unless the Assignee shall otherwise determine.

SECTION 4. Recordation. Each Assignor hereby authorizes and requests that the Commissioner of Patents and Trademarks record this Patent and Security Agreement.

SECTION 5. Termination. Upon Full Payment of the Secured Obligations, this Patent Security Agreement shall terminate. Upon termination of this Patent Security Agreement, the Pledged Patent Collateral shall be released from the Lien of this Patent Security Agreement and upon the request and at the sole cost and expense of the Assignors, the Assignee shall execute, acknowledge, and deliver to the Assignors an instrument in writing in recordable form releasing the Pledged Patent Collateral from the Lien of this Patent Security Agreement.

SECTION 6. Counterparts. This Patent Security Agreement and any amendments, waivers, consents or supplements hereto may be executed in any number of counterparts and by different parties hereto in separate counterparts, each of which when so executed and delivered shall be deemed to be an original, but all such counterparts together shall constitute one and the same agreement. Delivery of an executed counterpart of a signature page of this Patent Security Agreement by facsimile, e-mail or other electronic transmission (including in pdf format or other similar format) shall be effective as delivery of a manually executed counterpart of this Patent Security Agreement.

SECTION 7. Governing Law. This Patent Security Agreement shall be construed in accordance with and governed by the law of the State of New York, without regard to conflicts of law principles that would require the application of the laws of another jurisdiction.

SECTION 8. INTERCREDITOR AGREEMENT GOVERNS. NOTWITHSTANDING ANYTHING HEREIN TO THE CONTRARY, THE LIEN AND SECURITY INTEREST GRANTED TO THE ASSIGNEE, FOR THE BENEFIT OF THE SECURED PARTIES, PURSUANT TO THIS PATENT SECURITY AGREEMENT AND THE EXERCISE OF ANY RIGHT OR REMEDY BY THE ASSIGNEE AND THE OTHER SECURED PARTIES HEREUNDER ARE SUBJECT TO THE PROVISIONS OF THE INTERCREDITOR AGREEMENT. IN THE EVENT OF ANY CONFLICT OR INCONSISTENCY BETWEEN THE PROVISIONS OF THE INTERCREDITOR AGREEMENT AND THIS PATENT SECURITY AGREEMENT, THE PROVISIONS OF THE INTERCREDITOR AGREEMENT SHALL GOVERN AND CONTROL.

SECTION 9. Limitations Concerning Obligations of German Assignors. Solely with respect to the German Assignors party to this Trademark Security Agreement, the security interests granted by such German Assignor and the obligations of such German Assignor in respect thereof shall be subject to the terms of Section 7.11 of the Credit Agreement, *mutatis mutandis*.

[REMAINDER OF THIS PAGE INTENTIONALLY LEFT BLANK.]

IN WITNESS WHEREOF, each Assignor has caused this Patent Security Agreement to be executed and delivered by its duly authorized officer as of the date first above written.

NOVELIS INC.

By: _____

Name: Randal P. Miller

Title: Vice President and Treasurer

NOVELIS DEUTSCHLAND GMBH

By: _____

Name:

Title:

NOVELIS KOBLENZ GMBH

By: _____

Name: Randal P. Miller

Title: Person Authorized

IN WITNESS WHEREOF, each Assignor has caused this Patent Security Agreement to be executed and delivered by its duly authorized officer as of the date first above written.

NOVELIS INC.

By: _____
Name:
Title:

NOVELIS DEUTSCHLAND GMBH

By: Siegfried Holloff
Name: Siegfried Holloff
Title: Managing Director

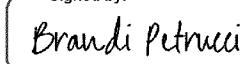
NOVELIS KOBLENZ GMBH

By: _____
Name:
Title:

[Signature Page to Patent Security Agreement]

Accepted and Agreed:

WELLS FARGO BANK, NATIONAL ASSOCIATION
as Assignee

By:  Signed by:

A009A0A1BF02400
Name: Brandi M. Petrucci
Title: Executive Director, Authorized Signatory

SCHEDULE I
to
PATENT SECURITY AGREEMENT
PATENT REGISTRATIONS AND PATENT APPLICATIONS

REGISTRATIONS

Novelis Koblenz GMBH

<u>TITLE</u>	<u>APP. NO.</u>	<u>REG. NO.</u>	<u>OWNER</u>
HIGH-DAMAGE TOLERANT ALLOY PRODUCT IN PARTICULAR FOR AEROSPACE APPLICATIONS	10/855560	8043445	Novelis Koblenz GMBH
HIGH-STRENGTH, HIGH TOUGHNESS AL-ZN ALLOY PRODUCT AND METHOD FOR PRODUCING SUCH PRODUCT	11/239651	7883591	Novelis Koblenz GMBH
METHOD OF PRODUCING AN ALUMINIUM ALLOY BRAZING SHEET AND LIGHT BRAZED HEAT EXCHANGER ASSEMBLIES	11/246960	7608345	Novelis Koblenz GMBH
HIGH STRENGTH WELDABLE AL-MG ALLOY	11/464387	7998402	Novelis Koblenz GMBH
DISTRIBUTOR FOR USE IN A METHOD OF CASTING HOT METAL	11/687462	7559353 ¹	Novelis Koblenz GMBH
AA2000-SERIES ALUMINUM ALLOY PRODUCTS AND A METHOD OF MANUFACTURING THEREOF	11/773900	8088234	Novelis Koblenz GMBH
AA7000-SERIES ALUMINUM ALLOY PRODUCTS AND A METHOD OF MANUFACTURING THEREOF	11/773919	8608876	Novelis Koblenz GMBH
METHOD FOR MANUFACTURING A WROUGHT METAL PLATE PRODUCT HAVING A GRADIENT IN ENGINEERING PROPERTIES	12/234632	8152943	Novelis Koblenz GMBH
AL-CU ALLOY PRODUCT SUITABLE FOR AEROSPACE APPLICATION	12/523289	8877123	Novelis Koblenz GMBH
ALUMINIUM ALLOY BRAZING SHEET PRODUCT	12/600462	8158273	Novelis Koblenz GMBH
AL-MG-ZN WROUGHT ALLOY PRODUCT AND METHOD OF ITS MANUFACTURE	12/742433	9039848	Novelis Koblenz GMBH
ALUMINIUM BRAZING SHEET MATERIAL	13/000481	8455110	Novelis Koblenz GMBH
WELDABLE METAL ARTICLE	13/257568	8784999	Novelis Koblenz GMBH

¹ **Note to Draft:** Intention is to let case go abandoned by not paying maintenance fees.

<u>TITLE</u>	<u>APP. NO.</u>	<u>REG. NO.</u>	<u>OWNER</u>
AL-MG ALLOY PRODUCT SUITABLE FOR ARMOUR PLATE APPLICATIONS	14/269562	9255315	Novelis Koblenz GMBH
AL-ZN-MG ALLOY PRODUCT WITH REDUCED QUENCH SENSITIVITY	14/547360	9890448	Novelis Koblenz GMBH
CLAD 2XXX-SERIES AEROSPACE PRODUCT	17/996682	11958266	Novelis Koblenz GMBH
AA7000-SERIES ALUMINUM ALLOY PRODUCTS AND A METHOD OF MANUFACTURING THEREOF	11/773904	8002913	Novelis Koblenz GMBH
PROCESS FOR PRODUCING AN ALUMINIUM ALLOY BRAZING SHEET, ALUMINIUM ALLOY BRAZING SHEET	11/136725	7407714	Novelis Koblenz GMBH
MULTI-LAYERED BRAZING SHEET	11/549054	7648776	Novelis Koblenz GMBH

Novelis Inc.

<u>TITLE</u>	<u>APP. NO.</u>	<u>REG. NO.</u>	<u>OWNER</u>
METHODS OF AND APPARATUS FOR FORMING HOLLOW METAL ARTICLES	11/125565	7191032	Novelis Inc.
ANODIZED QUALITY 5XXX ALUMINUM ALLOYS WITH HIGH STRENGTH AND HIGH FORMABILITY AND METHODS OF MAKING THE SAME	15/944997	11821061	Novelis Inc.
MULTI-LAYERED FINISHES FOR CAN ENDS	15/988089	11065843	Novelis Inc.
HIGH-STRENGTH CORROSION-RESISTANT 6XXX SERIES ALUMINUM ALLOYS AND METHODS OF MAKING THE SAME	15/989447	10837086	Novelis Inc.
COOLED CONVEYOR FOR DECOATING SYSTEMS	15/990004	10883774	Novelis Inc.
MEASURING THERMAL EXPANSION AND THE THERMAL CROWN OF ROLLS	16/000045	10799926	Novelis Inc.
HIGH PERFORMANCE ALUMINUM ALLOYS HAVING HIGH AMOUNTS OF RECYCLED MATERIAL AND METHODS OF MAKING THE SAME	16/027788	11180838	Novelis Inc.
MICRO-TEXTURED SURFACES VIA LOW PRESSURE ROLLING	16/041254	11213870 ²	Novelis Inc.
SYSTEMS AND METHODS FOR CONTROLLING FLATNESS OF A METAL SUBSTRATE WITH LOW PRESSURE ROLLING	16/041288	11638941	Novelis Inc.

² **Note to Draft:** Intention is to let case go abandoned by not paying maintenance fees.

<u>TITLE</u>	<u>APP. NO.</u>	<u>REG. NO.</u>	<u>OWNER</u>
SYSTEMS AND METHODS FOR CONTROLLING SURFACE TEXTURING OF A METAL SUBSTRATE WITH LOW PRESSURE ROLLING	16/041293	11426777	Novelis Inc.
PRETREATMENT COMPOSITIONS, COATED ALUMINUM ALLOYS, AND METHODS OF MAKING THE SAME	16/047165	11519076	Novelis Inc.
MIXING EDUCTOR NOZZLE AND FLOW CONTROL DEVICE	16/149567	10835954	Novelis Inc.
ALUMINUM ALLOY PRODUCTS EXHIBITING IMPROVED BOND DURABILITY AND METHODS OF MAKING THE SAME	16/168016	11649529	Novelis Inc.
METAL PRODUCTS HAVING IMPROVED SURFACE PROPERTIES AND METHODS OF MAKING THE SAME	16/352276	12000031	Novelis Inc.
CORRUGATED HEAT PROTECTION TUBE AND METHODS OF MAKING THE SAME	16/390564	10876662	Novelis Inc.
CLAD SHEETS FOR HEAT EXCHANGERS	16/401355	10926319	Novelis Inc.
F* AND W TEMPER ALUMINUM ALLOY PRODUCTS AND METHODS OF MAKING THE SAME	16/411724	11466351	Novelis Inc.
HIGH STRENGTH 6XXX AND 7XXX ALUMINUM ALLOYS AND METHODS OF MAKING THE SAME	16/412035	11932928	Novelis Inc.
PROCESS FOR WARM FORMING A HARDENED ALUMINUM ALLOY	16/419135	10934610	Novelis Inc.
SYSTEMS AND METHODS FOR QUENCHING A METAL STRIP AFTER ROLLING	16/440256	11192159	Novelis Inc.
SYSTEMS AND METHODS FOR CONTAINING VISCOUS MATERIALS IN ROLL PROCESSING	16/440670	10953447	Novelis Inc.
SYSTEMS AND METHODS FOR COOLING A ROLL IN METAL PROCESSING	16/440688	10814365	Novelis Inc.
SYSTEMS AND METHODS FOR THREADING A HOT COIL ON A MILL	16/448316	11242586	Novelis Inc.
SYSTEMS AND METHODS FOR THREADING A HOT COIL ON A MILL	16/448324	11499213	Novelis Inc.
SYSTEMS AND METHODS FOR THREADING A HOT COIL ON A MILL	16/448330	11377721	Novelis Inc.
SYSTEMS AND METHODS FOR IMPROVING THE STABILITY OF NON-FERROUS METALS ON A CONVEYOR	16/504712	10836584	Novelis Inc.
METHODS OF MAKING HIGHLY-FORMABLE ALUMINUM ALLOYS AND ALUMINUM ALLOY PRODUCTS THEREOF	16/518348	11788178	Novelis Inc.

<u>TITLE</u>	<u>APP. NO.</u>	<u>REG. NO.</u>	<u>OWNER</u>
ADJUSTABLE KILN FLIGHT FOR ROTARY KILN DECOATER AND ASSOCIATED METHOD	16/532822	11543184	Novelis Inc.
HIGH STRENGTH 6XXX ALUMINUM ALLOYS AND METHODS OF MAKING THE SAME	16/534520	11920229	Novelis Inc.
NON-CONTACTING MOLTEN METAL FLOW CONTROL	16/556988	11383296	Novelis Inc.
COOLING SYSTEM AND METHOD FOR DECOATERS	16/568644	11520360	Novelis Inc.
TAPERED PLUG BURNER CLEANING PORTS	16/654359	11549683	Novelis Inc.
FORMABLE, HIGH STRENGTH ALUMINUM ALLOY PRODUCTS AND METHODS OF MAKING THE SAME	16/661290	11466352	Novelis Inc.
RAPIDLY AGED, HIGH STRENGTH, HEAT TREATABLE ALUMINUM ALLOY PRODUCTS AND METHODS OF MAKING THE SAME	16/679515	11814713	Novelis Inc.
HIGH STRENGTH 6XXX ALUMINUM ALLOYS AND METHODS OF MAKING THE SAME	16/682834	12043887	Novelis Inc.
SYSTEMS AND METHODS FOR LAMINATING CAN END STOCK	16/723024	11826985	Novelis Inc.
CONTAINER END CLOSURE LINER AND METHODS OF PREPARING THE SAME	16/723049	11377258	Novelis Inc.
EXPANSION CONSTRAINT ASSEMBLY AND RELATED METHODS	16/749428	11698226	Novelis Inc.
SHORT BELT SIDE DAM FOR TWIN BELT CASTER	16/774783	11192175	Novelis Inc.
CAST METAL PRODUCTS WITH HIGH GRAIN CIRCULARITY	16/788981	10946437	Novelis Inc.
AGE-HARDENABLE AND HIGHLY FORMABLE ALUMINUM ALLOYS AND METHODS OF MAKING THE SAME	16/815996	11203801	Novelis Inc.
FAST RESPONSE HEATERS AND ASSOCIATED CONTROL SYSTEMS USED IN COMBINATION WITH METAL TREATMENT FURNACES	16/840842	11268765	Novelis Inc.
ULTRA-HIGH STRENGTH ALUMINUM ALLOY PRODUCTS AND METHODS OF MAKING THE SAME	16/870008	11746400	Novelis Inc.
CLAD ALUMINUM ALLOY PRODUCTS	16/946292	11766846	Novelis Inc.
METAL CASTING AND ROLLING LINE	17/085466	11590565	Novelis Inc.
SHORT BELT SIDE DAM FOR TWIN BELT CASTER	17/453546	12011758	Novelis Inc.
AGE-HARDENABLE AND HIGHLY FORMABLE ALUMINUM ALLOYS AND METHODS OF MAKING THE SAME	17/516453	11932924	Novelis Inc.

<u>TITLE</u>	<u>APP. NO.</u>	<u>REG. NO.</u>	<u>OWNER</u>
ROBOTIC SURFACE INSPECTION ADJACENT OR IN A COIL AROUND A MANDREL	17/653934	11911815	Novelis Inc.
REDUCED FINAL GRAIN SIZE OF UNRECRYSTALLIZED WROUGHT MATERIAL PRODUCED VIA THE DIRECT CHILL (DC) ROUTE	17/757665	11925973	Novelis Inc.
ALUMINUM ALLOYS AND COATED ALUMINUM ALLOYS WITH HIGH CORROSION RESISTANCE AND METHODS OF MAKING THE SAME	17/759064	11932925	Novelis Inc.
ULTRASONIC TREATMENT FOR MICROSTRUCTURE REFINEMENT OF CONTINUOUSLY CAST PRODUCTS	17/759925	11878339	Novelis Inc.
METAL SHEET WITH TAILORED PROPERTIES	17/806287	11874063	Novelis Inc.
MOLD CORNER HEATING DURING CASTING	17/905535	12151285	Novelis Inc.
METHOD OF CONTROLLING THE SHAPE OF AN INGOT HEAD	17/907161	12030114	Novelis Inc.
DEVICES AND METHODS CONFIGURED TO MANIPULATE FRICTION BETWEEN A WORKING PIECE AND A DEEP DRAWING TOOL IN A DEEP DRAWING PROCESS	17/912949	12179248	Novelis Inc.
SYSTEM AND METHOD FOR MONITORING INGOT DETACHMENT FROM BOTTOM BLOCK	18/005749	11951536	Novelis Inc.
SENSING EVENTS IN A METAL CASTING SYSTEM	18/005885	11951534	Novelis Inc.
MONITORING CASTING ENVIRONMENT	18/005937	12030116	Novelis Inc.
ADJUSTABLE KILN FLIGHT FOR ROTARY KILN DECOATER AND ASSOCIATED METHOD	18/056509	12044476	Novelis Inc.
TAPERED PLUG BURNER CLEANING PORTS	18/060452	11747015	Novelis Inc.
COOLING PAD ASSEMBLY FOR A BELT CASTING SYSTEM	18/257391	12083585	Novelis Inc.
CONTINUOUS RAPID METAL SORTING VIA MACHINE-READABLE MARKING	18/556144	12202011	Novelis Inc.
SENSING EVENTS IN A METAL CASTING SYSTEM	18/596071	12186798	Novelis Inc.

Novelis Deutschland GMBH

<u>TITLE</u>	<u>APP. NO.</u>	<u>REG. NO.</u>	<u>OWNER</u>
METHOD AND APPARATUS FOR MANUFACTURING A WRAP-AROUND TUBE	12/091871	8236120	Novelis Deutschland GMBH

APPLICATIONS

Novelis Koblenz GMBH

<u>TITLE</u>	<u>APP. NO.</u>	<u>OWNER</u>
CLAD ALUMINUM ALLOY PRODUCTS FOR AEROSPACE APPLICATIONS AND RELATED PROCESSES	63/714185	Novelis Koblenz GMBH
MULTI-LAYERED ALUMINUM BRAZING SHEET MATERIAL	17/757032	Novelis Koblenz GMBH
METHOD OF MANUFACTURING AN ALUMINIUM ALLOY ROLLED PRODUCT	17/757809	Novelis Koblenz GMBH
ALUMINIUM ALLOY MULTI-LAYERED BRAZING SHEET MATERIAL FOR FLUXFREE BRAZING	17/758599	Novelis Koblenz GMBH
ALUMINIUM ALLOY SHEET MATERIAL AND HEAT EXCHANGER INCORPORATING SUCH AN ALUMINIUM ALLOY SHEET MATERIAL	17/996702	Novelis Koblenz GMBH
METHOD OF MANUFACTURING AN ALUMINIUM ALLOY PLATE FOR VACUUM CHAMBER ELEMENTS	17/999988	Novelis Koblenz GMBH
ALUMINIUM ALLOY MULTI-LAYERED BRAZING SHEET MATERIAL FOR FLUX-FREE BRAZING	18/000000	Novelis Koblenz GMBH
ARMOUR COMPONENT PRODUCED FROM A 7XXX-SERIES ALUMINIUM ALLOY	18/577728	Novelis Koblenz GMBH
METHOD OF MANUFACTURING 2XXX-SERIES ALUMINUM ALLOY PRODUCTS	18/036177	Novelis Koblenz GMBH

Novelis Inc.

<u>TITLE</u>	<u>APP. NO.</u>	<u>OWNER</u>
ANODIZED ALUMINUM WITH DARK GRAY COLOR	15/674680	Novelis Inc.
HIGHLY FORMABLE AUTOMOTIVE ALUMINUM SHEET WITH REDUCED OR NO SURFACE ROPING AND A METHOD OF PREPARATION	15/787098	Novelis Inc.
ALUMINUM ALLOY ARTICLES HAVING IMPROVED BOND DURABILITY AND INERT SURFACE ALUMINUM ALLOY ARTICLES AND METHODS OF MAKING AND USING THE SAME	16/168029	Novelis Inc.
HIGH-STRENGTH, HIGHLY FORMABLE ALUMINUM ALLOYS AND METHODS OF MAKING THE SAME	16/168146	Novelis Inc.
METAL LEVEL OVERSHOOT OR UNDERSHOOT MITIGATION AT TRANSITION OF FLOW RATE DEMAND	16/190761	Novelis Inc.
LOW GAUGE, LEVELLED CAN BODY STOCK AND METHODS OF MAKING THE SAME	16/428137	Novelis Inc.
ALUMINUM ALLOY FOR HEAT EXCHANGER FINS	16/559142	Novelis Inc.

CONTINUOUS COILS CONTAINING A THIN ANODIZED FILM LAYER AND SYSTEMS AND METHODS FOR MAKING THE SAME	16/566283	Novelis Inc.
HIGH-STRENGTH 6XXX ALUMINUM ALLOYS AND METHODS OF MAKING THE SAME	16/697518	Novelis Inc.
HIGH-FORMING MULTI-LAYER ALUMINUM ALLOY PACKAGE	16/875472	Novelis Inc.
ALUMINUM ALLOYS FOR FLUXLESS BRAZING APPLICATIONS, METHODS OF MAKING THE SAME, AND USES THEREOF	17/594957	Novelis Inc.
ENHANCED DROSS FEEDSTOCK	17/596938	Novelis Inc.
TWO STAGE DROSS TREATMENT	17/596944	Novelis Inc.
OXIDATIVE ROASTING OF BLACK DROSS AND SALT CAKE	17/596947	Novelis Inc.
SURFACE ENGINEERED METAL SUBSTRATES AND RELATED METHODS	17/632422	Novelis Inc.
ALUMINUM FLAT ROLLED PRODUCTS WITH HIGH RECYCLED CONTENT FOR LIGHT GAUGE PACKAGING SOLUTIONS AND RELATED METHODS	17/640745	Novelis Inc.
SUPPRESSION OF STRESS CORROSION CRACKING IN HIGH MAGNESIUM ALLOYS THROUGH THE ADDITION OF CALCIUM	17/757272	Novelis Inc.
DECREASED CRACKING SUSCEPTIBILITY OF 7XXX SERIES DIRECT CHILL (DC) CAST INGOTS	17/757666	Novelis Inc.
INTERNALLY COOLED MAGNETIC ROTOR FOR HEATING A SUBSTRATE	17/758635	Novelis Inc.
ENGINEERED CAN BODY STOCK AND CAN END STOCK AND METHODS FOR MAKING AND USING SAME	17/758859	Novelis Inc.
SENSING AND OFFSETTING THE FORCE OF EVENTS IN A COIL FORMING OPERATION	17/759127	Novelis Inc.
TECHNIQUES FOR PRODUCING ALUMINUM ALLOY PRODUCTS HAVING IMPROVED FORMABILITY AND RECYCLABILITY	17/759178	Novelis Inc.
METAL PRODUCTS WITH IMPROVED BOND DURABILITY AND RELATED METHODS	17/759424	Novelis Inc.
RAPID QUENCH LINE	17/766091	Novelis Inc.
NON-CONTACTING MOLTEN METAL FLOW CONTROL	17/806388	Novelis Inc.
HIGH STRENGTH 7XXX ALUMINUM ALLOYS AND METHODS OF MAKING THE SAME	17/810438	Novelis Inc.
SYSTEMS AND METHODS FOR FORMING A DOUBLE DOME CONTAINER	17/811158	Novelis Inc.
PRE-AGEING SYSTEMS AND METHODS USING MAGNETIC HEATING	17/820322	Novelis Inc.
MULTI-PURPOSE PUMP SYSTEM FOR A METAL FURNACE AND RELATED METHODS	17/904240	Novelis Inc.

METAL ALLOY SURFACE MODIFICATION METHODS AND RELATED METAL ALLOY PRODUCTS WITH IMPROVED BOND DURABILITY	17/904303	Novelis Inc.
CONTROL OF ALUMINUM ALLOY MICROSTRUCTURE FOR IMPROVED CORROSION RESISTANCE AND BONDING PERFORMANCE	17/904307	Novelis Inc.
SCRAP SUBMERGENCE DEVICE AND RELATED PROCESSES	17/904909	Novelis Inc.
ALUMINUM ALLOY ARTICLES EXHIBITING IMPROVED BOND DURABILITY AND METHODS OF MAKING THE SAME	17/908765	Novelis Inc.
ELECTROLYTIC PROCESSING OF METALLIC SUBSTRATES	17/908787	Novelis Inc.
HOT UNCOILING OF METAL	17/915406	Novelis Inc.
ALUMINUM ALLOYS PRODUCED FROM RECYCLED ALUMINUM ALLOY SCRAP	17/995431	Novelis Inc.
SLOTTED CASTING SPOUT WITH BOTTOM CONTROL PIN	17/996371	Novelis Inc.
THERMALLY MODIFIED OXIDE BASED PRETREATMENTS FOR METALS AND METHODS OF MAKING THE SAME	17/996563	Novelis Inc.
SYSTEMS AND METHODS FOR CONTROLLING CONVEYORS DURING CASTING	17/996645	Novelis Inc.
ALUMINUM ALLOY PRETREATMENT WITH PHOSPHORUS- CONTAINING ORGANIC ACIDS FOR SURFACE MODIFICATION	17/998590	Novelis Inc.
PRETREATMENT COMPOSITIONS BONDED TO METAL SUBSTRATES AND METHODS OF MAKING THE SAME	17/998601	Novelis Inc.
METHOD AND APPARATUS FOR HEATING AND ROLL FORMING A PRODUCT	18/000705	Novelis Inc.
DIRECT CHILL CASTING MOLD SYSTEM	18/001621	Novelis Inc.
DETECTING METAL SEPARATION FROM CASTING MOLD	18/003054	Novelis Inc.
SYSTEM AND METHOD FOR MONITORING METAL LEVEL DURING CASTING	18/005712	Novelis Inc.
ROLL FORMING SYSTEM WITH HEAT TREATMENT AND ASSOCIATED METHODS	18/037584	Novelis Inc.
IMPROVED IRONING SYSTEMS AND METHODS	18/037735	Novelis Inc.
FUNCTIONALLY GRADIENT ALUMINUM ALLOY PRODUCTS AND METHODS OF MAKING	18/041297	Novelis Inc.
DIRECT CHILL CAST ALUMINUM INGOT WITH COMPOSITION GRADIENT FOR REDUCED CRACKING	18/043851	Novelis Inc.
HIGH STRENGTH AND LOW QUENCH SENSITIVE 7XXX SERIES ALUMINUM ALLOYS AND METHODS OF MAKING	18/044262	Novelis Inc.
COOLING SYSTEM AND METHOD FOR DECOATERS	18/046248	Novelis Inc.

METAL CASTING AND ROLLING LINE	18/157932	Novelis Inc.
CAST ALUMINUM ALLOYS COMPRISING CALCIUM AND RELATED PROCESSES	18/253708	Novelis Inc.
SYSTEMS AND METHODS OF CONTROLLING GAS FLOW IN A MOLD IN ALUMINUM CASTING	18/258670	Novelis Inc.
METAL CONTAINER END WITH COINED PERIPHERY EDGE AND RELATED METHODS	18/264334	Novelis Inc.
HIGH STRENGTH, SAG RESISTANT ALUMINUM ALLOYS FOR USE AS FIN STOCK AND METHODS OF MAKING THE SAME	18/272179	Novelis Inc.
HIGHLY FORMABLE, RECYCLED ALUMINUM ALLOYS AND METHODS OF MAKING THE SAME	18/346588	Novelis Inc.
REDUCED FINAL GRAIN SIZE OF UNRECRYSTALLIZED WROUGHT MATERIAL PRODUCED VIA THE DIRECT CHILL (DC) ROUTE	18/430893	Novelis Inc.
AGE-HARDENABLE AND HIGHLY FORMABLE ALUMINUM ALLOYS AND METHODS OF MAKING THE SAME	18/433819	Novelis Inc.
ROTATING MAGNET HEAT INDUCTION	18/459340	Novelis Inc.
HIGH STRENGTH 6XXX SERIES ALUMINUM ALLOYS AND METHODS OF MAKING THE SAME	18/487373	Novelis Inc.
HIGH-STRENGTH 5XXX ALUMINUM ALLOY VARIANTS AND METHODS FOR PREPARING THE SAME	18/548290	Novelis Inc.
PRIMARY BEVERAGE CONTAINER WITH TEMPERATURE CONTROL	18/554193	Novelis Inc.
CONTACTLESS LOOPER FOR METAL PROCESSING AND RELATED METHODS	18/555147	Novelis Inc.
NOSETIP DESIGN FOR HIGH-PERFORMANCE CONTINUOUS CASTING	18/555401	Novelis Inc.
ROLL STEERING CONTROL SYSTEMS AND METHODS FOR TANDEM MILLS	18/555576	Novelis Inc.
LAMINATED CAN END STOCK	18/556164	Novelis Inc.
CRAZING RESISTANT CAN END STOCK	18/556169	Novelis Inc.
METAL PRODUCTS HAVING IMPROVED SURFACE PROPERTIES AND METHODS OF MAKING THE SAME	18/645922	Novelis Inc.
METHOD OF CONTROLLING THE SHAPE OF AN INGOT HEAD	18/666462	Novelis Inc.
SYSTEMS AND METHODS FOR PRODUCING TEXTURIZED CASTING MOLDS OF A CONTINUOUS BELT CASTER	18/682286	Novelis Inc.
ALUMINUM ALLOY ARTICLE HAVING LOW ROPING AND METHODS OF MAKING THE SAME	18/689801	Novelis Inc.
SURFACE TREATMENT OF METAL SUBSTRATES SIMULTANEOUS WITH SOLUTION HEAT TREATMENT OR CONTINUOUS ANNEALING	18/691283	Novelis Inc.

HEAT TREATED ALUMINUM SHEETS AND PROCESSES FOR MAKING	18/698118	Novelis Inc.
THERMAL ASSISTED SELF-PIERCING RIVETING FOR HIGH STRENGTH 7XXX ALUMINUM	18/698239 ³	Novelis Inc.
SYSTEM AND METHOD FOR RAPID SUBSTRATE COOLING	18/705465	Novelis Inc.
COLD SPRAY SYSTEMS AND METHODS FOR COATING CAST MATERIALS	18/722840	Novelis Inc.
COOLING SYSTEM FOR DECOATER CYCLONE DUST AND RELATED METHODS	18/726538	Novelis Inc.
COOLING PAD ASSEMBLY FOR A BELT CASTING SYSTEM	18/775494	Novelis Inc.
SYSTEMS AND METHODS FOR CONTROLLING THREADING IN A ROLLING MILL	18/832102	Novelis Inc.
SYSTEMS AND METHODS FOR CONTROLLING VERTICAL FOLDS DURING DIRECT CHILL CASTING	18/837809	Novelis Inc.
SOLID-STATE BATTERIES WITH ALUMINUM-BASED ANODES	18/853884	Novelis Inc.
IRONING ROLL THERMAL IMAGE MONITORING AND CONTROL	18/862270	Novelis Inc.
CROPPING CONTROL SYSTEMS FOR HOT MILL OPERATIONS	18/864968	Novelis Inc.
DECOUPLED CONTINUOUS CASTING AND ROLLING LINE	18/938940	Novelis Inc.
MANIPULATION OF TRIBOLOGY CONDITIONS IN FORMING PROCESSES	18/969727	Novelis Inc.
SENSING EVENTS IN A METAL CASTING SYSTEM	18/973419	Novelis Inc.
CONTINUOUS RAPID METAL SORTING VIA MACHINE-READABLE MARKING	19/004833	Novelis Inc.
ALUMINUM-BASED ANODE FOR LITHIUM-ION BATTERIES	18/686967	Novelis Inc., & Georgia Tech Research Corporation
SYSTEMS AND METHODS FOR CONTROLLING LOW SPOTS ON A ROLLING FACE OF AN INGOT	63/550711	Novelis Inc.
SYSTEMS AND METHODS FOR POWERING WIRELESS MEASUREMENT DEVICES ON CAN BODY MAKER	63/551182	Novelis Inc.
RECYCLING OF AEROSPACE CHIPS DESIGN	63/557099	Novelis Inc.
CAN END CROSS SECTION PRODUCTION	63/557710	Novelis Inc.
ACID COATING FOR IMPROVED CLEANING	63/558181	Novelis Inc.
SYSTEMS AND METHODS FOR CAPTURING HARD PARTICLES AFTER FILTERING AND BEFORE CASTING	63/561366	Novelis Inc.
INSTRUMENTED RAM FOR FORCE MEASUREMENT DURING CAN FORMING	63/562385	Novelis Inc.

³ **Note to Draft:** Intention is to let case go abandoned by not paying maintenance fees.

WATER-BASED COATING COMPOSITIONS FOR DIFFERENT COLORS AND RELATED PRODUCTS AND PROCESSES	63/567699	Novelis Inc.
HIGH CHROMIUM 3XXX SERIES AND 5XXX SERIES ALUMINUM ALLOYS AND RELATED PRODUCTS	63/568025	Novelis Inc.
CURRENT INTERRUPT DEVICE INCLUDING HIGH STRENGTH AND HIGH RECYCLED CONTENT ALUMINUM ALLOY	63/568062	Novelis Inc.
COMMUNITION AND RECONSTITUTION OF GRAIN REFINER FOR CASTING INCLUSION SENSITIVE ALLOYS	63/569854	Novelis Inc.
6XXX SERIES ALUMINUM ALLOYS PRODUCED FROM MIXED RECYCLED ALUMINUM ALLOY SCRAP FOR AUTOMOTIVE APPLICATIONS	63/570366	Novelis Inc.
METHODS OF PROCESSING 6XXX SERIES ALUMINUM ALLOYS AND RELATED PRODUCTS	63/631561	Novelis Inc.
"METAL CONTAINER WITH RESEALABLE TAB FIELD OF THE INVENTION"	63/632087	Novelis Inc.
RECYCLE FRIENDLY 6XXX SERIES ALUMINUM ALLOYS AND METHODS FOR PREPARING THE SAME	63/642334	Novelis Inc.
SYSTEMS AND METHODS FOR BRIQUETTING OF LOOSE ALUMINUM CHIPS	63/648718	Novelis Inc.
SYSTEMS AND METHODS FOR ANALYSIS AND SORTATION OF END-OF-LIFE SCRAP	63/648756	Novelis Inc.
RECYCLABLE METAL SORTING FOR END-OF-LIFE SCRAP	63/649584	Novelis Inc.
DEEP BED FILTER WITH INCLUSION CONTAINER BARRIER	63/650503	Novelis Inc.
WIPER SYSTEMS AND METHODS FOR METAL STRIP PROCESSING	63/650554	Novelis Inc.
DYNAMIC COMBUSTION CONTROL FOR METAL FURNACE	63/666546	Novelis Inc.
CLAD ALUMINUM ALLOY FOIL HAVING HIGH RECYCLED CONTENT AND HIGH ELECTRICAL CONDUCTIVITY	63/666810	Novelis Inc.
METHODS OF MANUFACTURING 2XXX-SERIES ALUMINUM ALLOY SHEETS IN O TEMPER	63/686479	Novelis Inc.
METHOD OF MANUFACTURING 2XXX-SERIES ALUMINIUM ALLOY SHEETS	63/686498	Novelis Inc.
4XXX SERIES ALUMINUM ALLOYS FOR AUTOMOTIVE APPLICATIONS	63/702926	Novelis Inc.
4XXX SERIES ALUMINUM ALLOYS FOR AUTOMOTIVE APPLICATIONS	63/702933	Novelis Inc.
METHODS FOR AGING ALUMINUM ALLOY ARTICLES	63/703268	Novelis Inc.

ALUMINUM ALLOY PRODUCTS PRODUCED FROM RECYCLED ALUMINUM ALLOY MATERIALS FOR CONTROLLED ATMOSPHERE BRAZING	63/708942	Novelis Inc.
HIGH SI CONTENT WROUGHT ALUMINUM ALLOY MATERIALS AND METHODS FOR PREPARING THE SAME	63/716322	Novelis Inc.
METHODS FOR PRODUCING HIGH RECYCLED CONTENT ALUMINUM ALLOYS	63/716327	Novelis Inc.
HIGH RECYCLE CONTENT ALUMINUM ALLOYS AND METHODS FOR PREPARING THE SAME	63/717590	Novelis Inc.
DIRECT CHILL CAST 3XXX SERIES ALUMINUM ALLOY WITH ELECTRICAL AND THERMAL CONDUCTIVITY	63/719944	Novelis Inc.
HIGH RECYCLE CONTENT 3XXX SERIES ALUMINUM ALLOYS FOR USE IN ROLLER SHUTTERS AND GARAGE DOORS	63/720975	Novelis Inc.
MOLD ELEVATION CONTROL FOR DEEP BOTTOM BLOCKS	63/721185	Novelis Inc.
CROSSLINKED PRETREATMENT COMPOSITIONS FOR METAL SUBSTRATES AND METHODS OF MAKING THE SAME	63/721685	Novelis Inc.
6XXX SERIES ALUMINUM ALLOY PRODUCTS WITH ISOTROPIC PROPERTIES AND RELATED METHODS	63/722193	Novelis Inc.
METHODS FOR PROCESSING ALUMINUM ALLOYS FOR LOW TEMPERATURE PAINT BAKE	63/728281	Novelis Inc.
COMPOSITIONS AND METHODS OF MAKING PRE-PAINTED ALUMINUM ALLOY SHEETS	63/728292	Novelis Inc.
SYSTEMS FOR STABILIZING LIGHT GAUGE ALUMINUM ALLOYS	63/736016	Novelis Inc.
TERNARY ALUMINUM-BASED FOIL ANODES FOR SOLID-STATE BATTERIES	63/709817	Novelis Inc., & Georgia Tech Research Corporation
AUTOMATIC DAM POSITIONING SYSTEMS AND METHODS FOR CONTROLLING MOLTEN METAL DISTRIBUTION TO CONTINUOUS CASTERS	18/851117	Novelis Inc.
RECYCLED ALUMINUM ALLOYS FOR USE IN LITHIUM-ION BATTERIES	18/866600	Novelis Inc.
ALUMINUM ALLOY PRODUCTS WITH HOT-MELT LAMINATION COATINGS FOR ELECTRICAL INSULATION	18/846033	Novelis Inc.
SYSTEMS AND METHODS FOR STEAM CONDENSATION IN ALUMINUM DIRECT CHILL CASTING PIT	18/879106	Novelis Inc.
HIGH-STRENGTH ALUMINUM ALLOYS FOR CAN END STOCK AND METHODS FOR PREPARING THE SAME	18/859057	Novelis Inc.

ALUMINUM ALLOY PRODUCT WITH HIGH FORMABILITY IN THE O-TEMPER AND METHODS OF PRODUCING THE SAME	63/743799	Novelis Inc.
SOLAR CELLS ON METALLIC SUBSTRATES	63/753727	Novelis Inc.
BUTT CURL COMPENSATING STARTING HEADS	63/751700	Novelis Inc.
HIGH STRENGTH CORROSION-RESISTANT 6XXX SERIES ALUMINUM ALLOYS AND METHODS FOR PREPARING THE SAME	18/996333	Novelis Inc.
RECYCLED ALUMINUM ALLOYS FOR USE IN CURRENT COLLECTORS IN LITHIUM-ION BATTERIES	19/027691	Novelis Inc.
PRELITHIATION OF ALUMINUM-BASED ANODES FOR SOLID-STATE BATTERIES	18/948049	Novelis Inc., & Georgia Tech Research Corporation