



## Gala's Intellectual Property Assets (Patents)

<b>Active GALA Patents as of June 12, 2018</b>			
<b><u>Title</u></b>	<b><u>Country</u></b>	<b><u>Patent Number</u></b>	<b><u>Issue Date</u></b>
DRYER SYSTEM WITH IMPROVED THROUGHPUT	Argentina	AR075265B1	7/25/2016
Layered RotoMolding	Argentina	AR068198B1	10/19/2016
<b><u>Title</u></b>	<b><u>Country</u></b>	<b><u>Patent Number</u></b>	<b><u>Issue Date</u></b>
POLYIMIDE BEADS AND METHOD FOR PRODUCTION THEREOF (co-owned with Solvay/Rhodia)	Armenia (EA)	14994	4/29/2011
<b><u>Title</u></b>	<b><u>Country</u></b>	<b><u>Patent Number</u></b>	<b><u>Issue Date</u></b>
THERMALLY INSULATED DIE PLATE ASSEMBLY FOR UNDERWATER PELLETIZING AND THE LIKE	Australia	2009282038	12/4/2014
DRYER SYSTEM WITH IMPROVED THROUGHPUT	Australia	2009288073	8/27/2015
<b><u>Title</u></b>	<b><u>Country</u></b>	<b><u>Patent Number</u></b>	<b><u>Issue Date</u></b>
SECTIONED ADJUSTABLE WATER FLOW GUIDE FOR PELLETIZER	Austria	AT358007	3/28/2007
STARTER VALVE	Austria (EP)	EP1851023	1/14/2009
SIEVE (EM SCREEN)	Austria (EP)	EP2135023	9/28/2011
VOLATILE INGREDIENTS	Austria (EP)	EP2008784	2/27/2013
PELLETIZING DEVICE AND BLADE HEAD AND/OR GRINDING HEAD FOR SUCH A PELLETIZING DEVICE	Austria (EP)	EP2212077	10/16/2013
POSITIONABLE GAS INJECTION NOZZLE FOR AN UNDERWATER PELLETIZING SYSTEM	Austria (EP)	EP2296856	11/13/2013
SELF-CLEANING CENTRIFUGAL PELLET DRYER AND METHOD THEREOF	Austria (EP)	EP1650516	4/2/2014
THERMALLY INSULATED DIE PLATE ASSEMBLY FOR UNDERWATER PELLETIZING AND THE LIKE	Austria (EP)	EP2326474	3/18/2015
STEEP ANGLE CUTTER HUB WITH BLUNT EDGE BLADES	Austria (EP)	EP1984157	4/22/2015
STEEP ANGLE CUTTER HUB AND BLADE ASSEMBLY	Austria (EP)	EP1582327	5/13/2015
APPARATUS AND METHOD FOR CONTROLLED PELLETIZATION PROCESSING	Austria (EP)	EP2700489	5/27/2015
MELT CUTTER	Austria (EP)	2747969 AT E765321	12/17/2015
FILTRATION SYSTEM	Austria (EP)	2629871	2/10/2016
METHOD AND APPARATUS FOR MAKING CRYSTALLINE POLYMERIC PELLETS (CPT)	Austria (EP)	1883517	2/17/2016
SOLID FACE DIE PLATE	Austria (EP)	2018257	2/24/2016
ML DRYER SCREEN	Austria (EP)	1830963	4/27/2016
Inwardly Embossed Deflectors	Austria (EP)	2147272	8/17/2016

HOLLOW PELLETS	Austria (EP)	2291276	8/24/2016
PIN DRIVE QUICK DISCONNECT HUB	Austria (EP)	2969442	2/1/2017
EAC Cutterhub	Austria (EP)	2442954	5/31/2017
FILTRATION DEVICE - DIV.	Austria (EP)	2712664	5/31/2017
CONTINUOUS BAGGING PROCESSES AND SYSTEMS	Austria (EP)	2401205	8/9/2017
OUTWARDLY PROJECTING EMBOSSED DEFLECTOR STRIPS	Austria (EP)	3 014 206 AT 917299	8/9/2017
MELT CUTTER II	Austria (EP)	2958722	10/4/2017
Melt Component Connection Adapter	Austria (EP)	3237172	5/2/2018
<b><u>Title</u></b>	<b><u>Country</u></b>	<b><u>Patent Number</u></b>	<b><u>Issue Date</u></b>
POLYMIDE BEADS AND METHOD FOR PRODUCTION THEREOF (co-owned with Solvay/Rhodia)	Azerbaijan (EA)	14994	4/29/2011
<b><u>Title</u></b>	<b><u>Country</u></b>	<b><u>Patent Number</u></b>	<b><u>Issue Date</u></b>
POLYMIDE BEADS AND METHOD FOR PRODUCTION THEREOF (co-owned with Solvay/Rhodia)	Belarus (EA)	14994	4/29/2011
<b><u>Title</u></b>	<b><u>Country</u></b>	<b><u>Patent Number</u></b>	<b><u>Issue Date</u></b>
SIEVE (EM SCREEN)	Belgium (EP)	EP2135023	9/28/2011
METHOD AND APPARATUS FOR MAKING CRYSTALLINE PET PELLETS	Belgium (EP)	EP1684961	10/2/2013
PELLETIZING DEVICE AND BLADE HEAD AND/OR GRINDING HEAD FOR SUCH A PELLETIZING DEVICE	Belgium (EP)	EP2212077	10/16/2013
POSITIONABLE GAS INJECTION NOZZLE FOR AN UNDERWATER PELLETIZING SYSTEM	Belgium (EP)	EP2296856	11/13/2013
APPARATUS AND METHOD FOR CONTROLLED PELLETIZATION PROCESSING	Belgium (EP)	EP1954470	4/30/2014
STEEP ANGLE CUTTER HUB AND BLADE ASSEMBLY	Belgium (EP)	EP1582327	5/13/2015
METHOD AND APPARATUS TO ACHIEVE FORMULATION AND REACTIVE POLYMERIZATION UTILIZING A THERMALLY AND ATMOSPHERICALLY CONTROLLED FEEDING SYSTEM FOR THERMOPLASTIC MATERIALS	Belgium (EP)	EP2349665	8/19/2015
SOLID FACE DIE PLATE	Belgium (EP)	2018257	2/24/2016
Inwardly Embossed Deflectors	Belgium (EP)	2147272	8/17/2016
HOLLOW PELLETS	Belgium (EP)	2291276	8/24/2016
WAX PROCESS	Belgium (EP)	1991402	12/28/2016
PIN DRIVE QUICK DISCONNECT HUB	Belgium (EP)	2969442	2/1/2017
FILTRATION DEVICE - DIV.	Belgium (EP)	2712664	5/31/2017
OUTWARDLY PROJECTING EMBOSSED DEFLECTOR STRIPS	Belgium (EP)	3 014 206	8/9/2017
Melt Component Connection Adapter	Belgium (EP)	3237172	5/2/2018
<b><u>Title</u></b>	<b><u>Country</u></b>	<b><u>Patent Number</u></b>	<b><u>Issue Date</u></b>
CENTER HEATED DIE PLATE FOR UNDERWATER PELLETIZER	Brazil	PI 0607272-0	12/13/2016
METHOD AND APPARATUS FOR MAKING CRYSTALLINE POLYMERIC PELLETS (CPT)	Brazil	PI 0611406-7	8/29/2017
APPARATUS AND METHOD FOR PELLETIZING WAX AND WAX-LIKE MATERIALS	Brazil	PI 0709004-8	1/16/2018

MELT COOLER AND VALVING SYSTEM FOR UNDERWATER PELLETIZING PROCESS	Brazil	PI 0710545-2	3/27/2018
<b>Title</b>	<b>Country</b>	<b>Patent Number</b>	<b>Issue Date</b>
CENTRIFUGAL PELLET DRYER SCREEN WITH INTEGRAL EMBOSSED DEFLECTOR STRIPS	Canada	2,684,414	7/15/2014
METHOD AND APPARATUS FOR ENHANCED MINIMAL SHEAR MOLDING UTILIZING EXTRUSIONAL, PELLETIZATION, AND MELT RHEOLOGICAL CONTROL OF PELLETS AND MICROPELLETS AND MOLDED OBJECTS MADE THEREFROM	Canada	2,696,614	10/28/2014
I-HEAT	Canada	2619945	1/19/2016
DRYER SYSTEM WITH IMPROVED THROUGHPUT	Canada	2733167	5/9/2017
Asphalt Pelletizing/Coating Process	Canada	2797085	7/25/2017
HEAT FLUX DIE	Canada	2733714	9/5/2017
EAC Cutterhub	Canada	2766052	9/12/2017
<b>Title</b>	<b>Country</b>	<b>Patent Number</b>	<b>Issue Date</b>
Layered RotoMolding	Chile	54890	9/28/2017
HEAT FLUX DIE	Chile	51655	1/11/2016
<b>Title</b>	<b>Country</b>	<b>Patent Number</b>	<b>Issue Date</b>
INSULATION PLUG FOR UNDERWATER PELLETIZER DIE RECESS	China	1406664	5/17/2006
CENTER HEATED DIE PLATE FOR UNDERWATER PELLETIZER	China	101107108	1/26/2011
SECTIONED ADJUSTABLE WATER FLOW GUIDE FOR UNDERWATER PELLETIZER	China	1732071	2/2/2011
SELF-CLEANING CENTRIFUGAL PELLET DRYER AND METHOD THEREOF	China	1782646	3/9/2011
CENTRIFUGAL PELLET DRYER MULTI-LAYER SCREEN	China	101124048	6/29/2011
METHOD AND APPARATUS FOR MAKING CRYSTALLINE POLYMERIC PELLETS AND GRANULES	China	101184593	2/8/2012
SIEVE (EM SCREEN)	China	101675312	7/4/2012
STEEP ANGLE CUTTER HUB WITH BLUNT EDGE BLADES	China	101405114	11/7/2012
POLYIMIDE BEADS AND METHOD FOR PRODUCTION THEREOF (co-owned with Solvay/Rhodia)	China	101600549B	11/28/2012
MELT COOLER AND VALVING SYSTEM FOR AN UNDERWATER PELLETIZING PROCESS	China	101472720	4/3/2013
APPARATUS AND METHOD FOR CONTROLLED PELLETIZATION PROCESSING	China	101484304	4/24/2013
CENTRIFUGAL PELLET DRYER SCREEN WITH INTEGRAL EMBOSSED DEFLECTOR STRIPS	China	102016473	5/1/2013
POSITIONABLE GAS INJECTION NOZZLE ASSEMBLY FOR AN UNDERWATER PELLETIZING SYSTEM	China	102112278	6/26/2013
METHOD AND APPARATUS TO ACHIEVE CRYSTALLIZATION OF POLYMERS UTILIZING MULTIPLE PROCESSING SYSTEMS	China	101998897	12/18/2013
CONTINUOUS BAGGING PROCESSES AND SYSTEMS	China	102333701	1/15/2014
APPARATUS AND METHOD FOR PELLETIZING WAX AND WAX-LIKE MATERIALS	China	101448614	1/29/2014

PELLETIZING ASPHALT	China	103038316	2/25/2015
CONTINUOUS PELLETIZING, DRYING AND BAGGING SYSTEMS WITH IMPROVED THROUGHPUT	China	102802896	6/24/2015
DRYER SYSTEM WITH IMPROVED THROUGHPUT	China	102149525	8/26/2015
METHOD AND APPARATUS FOR ENHANCED MINIMAL SHEAR MOLDING UTILIZING EXTRUSIONAL, PELLETIZATION, AND MELT RHEOLOGICAL CONTROL OF PELLETS AND MICROPELLETS AND MOLDED OBJECTS MADE THEREFROM	China	101842419	9/2/2015
THERMALLY INSULATED DIE PLATE ASSEMBLY FOR UNDERWATER PELLETIZING AND THE LIKE	China	102239035	9/2/2015
FILTRATION DEVICE	China	ZL2010800697608	9/30/2015
Rotary Valve System	China	103596860	4/20/2016
HOLLOW PELLETS	China	ZL2009801163944	9/14/2016
Reaction Extrusion / TPU	China	ZL2009801350118	10/5/2016
MELT CUTTER	China	ZL2012800414398	11/23/2016
OUTWARDLY PROJECTING EMBOSSED DEFLECTOR STRIPS	China	ZL201480034980.5 105324619	8/15/2017
MELT CUTTER II	China	201480009460.9	11/10/2017
PIN DRIVE QUICK DISCONNECT HUB	China	201480015905.4	2/6/2018
<b><u>Title</u></b>	<b><u>Country</u></b>	<b><u>Patent Number</u></b>	<b><u>Issue Date</u></b>
METHOD AND APPARATUS FOR MAKING CRYSTALLINE PET PELLETS	Czech Republic (EP)	EP1684961	10/2/2013
POSITIONABLE GAS INJECTION NOZZLE FOR AN UNDERWATER PELLETIZING SYSTEM	Czech Republic (EP)	EP2296856	11/13/2013
FILTRATION SYSTEM	Czech Republic (EP)	2629871	2/10/2016
Inwardly Embossed Deflectors	Czech Republic (EP)	2147272	8/17/2016
FILTRATION DEVICE - DIV.	Czech Republic (EP)	2712664	5/31/2017
OUTWARDLY PROJECTING EMBOSSED DEFLECTOR STRIPS	Czech Republic (EP)	3 014 206	8/9/2017
<b><u>Title</u></b>	<b><u>Country</u></b>	<b><u>Patent Number</u></b>	<b><u>Issue Date</u></b>
POLYIMIDE BEADS AND METHOD FOR PRODUCTION THEREOF (co-owned with Solvay/Rhodia)	France	06 11260	3/9/2012
POSITIONABLE GAS INJECTION NOZZLE FOR AN UNDERWATER PELLETIZING SYSTEM	France (EP)	EP2296856	11/13/2013
APPARATUS AND METHOD FOR CONTROLLED PELLETIZATION PROCESSING	France (EP)	EP2700489	5/27/2015
METHOD AND APPARATUS TO ACHIEVE FORMULATION AND REACTIVE POLYMERIZATION UTILIZING A THERMALLY AND ATMOSPHERICALLY CONTROLLED FEEDING SYSTEM FOR THERMOPLASTIC MATERIALS	France (EP)	EP2349665	8/19/2015
<b><u>Title</u></b>	<b><u>Country</u></b>	<b><u>Patent Number</u></b>	<b><u>Issue Date</u></b>
SECTIONED ADJUSTABLE WATER FLOW GUIDE FOR PELLETIZER	Germany (EP)	EP1556199	3/28/2007
STARTER VALVE	Germany (EP)	EP1851023	1/14/2009

Polymer Diverter Valve with Rupture Disc	DE-UM	202009011114 U1	2/3/2011
SIEVE (EM SCREEN)	Germany (EP)	EP2135023	9/28/2011
MELT COOLER AND VALVING SYSTEM FOR UNDERWATER PELLETIZING PROCESS	Germany (EP)	EP2007561	1/7/2013
VOLATILE INGREDIENTS	Germany (EP)	EP2008784	2/27/2013
PELLETIZING DEVICE AND BLADE HEAD AND/OR GRINDING HEAD FOR SUCH A PELLETIZING DEVIC	Germany (EP)	EP2212077	10/16/2013
POSITIONABLE GAS INJECTION NOZZLE FOR AN UNDERWATER PELLETIZING SYSTEM	Germany (EP)	EP2296856	11/13/2013
SELF-CLEANING CENTRIFUGAL PELLET DRYER AND METHOD THEREOF	Germany (EP)	EP1650516	4/2/2014
APPARATUS AND METHOD FOR CONTROLLED PELLETIZATION PROCESSING	Germany (EP)	EP1954470	4/30/2014
MELT CUTTER II	DE-UM	202013001692 U1	7/3/2014
THERMALLY INSULATED DIE PLATE ASSEMBLY FOR UNDERWATER PELLETIZING AND THE LIKE	Germany (EP)	EP2326474	3/18/2015
STEEP ANGLE CUTTER HUB WITH BLUNT EDGE BLADES	Germany (EP)	EP1984157	4/22/2015
STEEP ANGLE CUTTER HUB AND BLADE ASSEMBLY	Germany (EP)	EP1582327	5/13/2015
METHOD AND APPARATUS TO ACHIEVE FORMULATION AND REACTIVE POLYMERIZATION UTILIZING A THERMALLY AND ATMOSPHERICALLY CONTROLLED FEEDING SYSTEM FOR THERMOPLASTIC MATERIALS	Germany (EP)	EP2349665	8/19/2015
MELT CUTTER	Germany (EP)	2747969	12/19/2015
FILTRATION SYSTEM	Germany (EP)	2629871	2/10/2016
METHOD AND APPARATUS FOR MAKING CRYSTALLINE POLYMERIC PELLETS (CPT)	Germany (EP)	1883517	2/17/2016
SOLID FACE DIE PLATE	Germany (EP)	2018257	2/24/2016
ML DRYER SCREEN	Germany (EP)	1830963	4/27/2016
PIN DRIVE QUICK DISCONNECT HUB	DE-UM	202014010742U1	7/1/2016
Inwardly Embossed Deflectors	Germany (EP)	2147272	8/17/2016
HOLLOW PELLETS	Germany (EP)	2291276	8/24/2016
WAX PROCESS	Germany (EP)	1991402	12/28/2016
Adjustable Dewatering Inlet	DE-UM	20-2016-006451U1	1/23/2017
Screen/Housing Vibration Damper	DE-UM	20-2016-006452U1	1/23/2017
PIN DRIVE QUICK DISCONNECT HUB	Germany (EP)	2969442	2/1/2017
Curved Pellet Outlet	DE-UM	20-2017-000499U1	2/14/2017
Interior Blower Ducting	DE-UM	20-2017-000498U1	2/14/2017
EAC Cutterhub	Germany (EP)	2442954	5/31/2017
FILTRATION DEVICE - DIV.	Germany (EP)	2712664	5/31/2017
Melt Component Connection Adapter	DE-UM	202016001455U1	6/8/2017
CONTINUOUS BAGGING PROCESSES AND SYSTEMS	Germany (EP)	2401205	8/9/2017
OUTWARDLY PROJECTING EMBOSSED DEFLECTOR STRIPS	Germany (EP)	3 014 206	8/9/2017
MELT CUTTER II	Germany (EP)	2958722	10/4/2017
Melt Component Connection Adapter	Germany (EP)	3237172	5/2/2018
<b><u>Title</u></b>	<b><u>Country</u></b>	<b><u>Patent Number</u></b>	<b><u>Issue Date</u></b>

FILTRATION DEVICE	Great Britain	2712664	5/31/2017
<b>Title</b>	<b>Country</b>	<b>Patent Number</b>	<b>Issue Date</b>
CENTRIFUGAL PELLET DRYER SCREEN WITH INTEGRAL EMBOSSED DEFLECTOR	Gulf Cooperation Council	GC00002993	5/24/2008
EAC Cutterhub	Gulf Cooperation Council	GC0004222	6/29/2016
HEAT FLUX DIE	Gulf Cooperation Council	GC0005887	7/10/2017
<b>Title</b>	<b>Country</b>	<b>Patent Number</b>	<b>Issue Date</b>
SELF CLEANING CENTRIFUGAL PELLET DRYER AND METHOD THEREOF	India	262538	8/27/2014
METHOD AND APPARATUS FOR MAKING CRYSTALLINE POLYMERIC PELLETS AND GRANULES	India	264452	12/30/2014
APPARATUS AND METHOD FOR CONTROLLED PELLETIZATION PROCESSING	India	266125	4/6/2015
CENTER HEATED DIE PLATE FOR UNDERWATER PELLETIZER	India	272806	4/27/2016
ML DRYER SCREEN	India	276960	11/7/2016
MELT COOLER AND VALVING SYSTEM FOR UNDERWATER PELLETIZING PROCESS	India	277802	11/30/2016
Layered RotoMolding	India	282430	4/11/2017
WAX PROCESS	India	283473	5/23/2017
POSITIONABLE GAS INJECTION NOZZLE	India	284824	6/30/2017
THERMALLY INSULATED DIE PLATE ASSEMBLY FOR UNDERWATER PELLETIZING AND THE LIKE	India	292102	1/14/2018
Easy Mount Screen	India	293861	3/6/2018
<b>Title</b>	<b>Country</b>	<b>Patent Number</b>	<b>Issue Date</b>
CONTINUOUS BAGGING PROCESSES AND SYSTEMS	Indonesia	IDP0037627	1/9/2015
THERMALLY INSULATED DIE PLATE ASSEMBLY FOR UNDERWATER PELLETIZING AND THE LIKE	Indonesia	IDP0039555	9/30/2015
<b>Title</b>	<b>Country</b>	<b>Patent Number</b>	<b>Issue Date</b>
THERMALLY INSULATED DIE PLATE ASSEMBLY FOR UNDERWATER PELLETIZING AND THE LIKE	Israel	211179	3/31/2015
<b>Title</b>	<b>Country</b>	<b>Patent Number</b>	<b>Issue Date</b>
SECTIONED ADJUSTABLE WATER FLOW GUIDE FOR PELLETIZER	Italy (EP)	EP1556199	3/28/2007
STARTER VALVE	Italy (EP)	EP1851023	1/14/2009
SIEVE (EM SCREEN)	Italy (EP)	EP2135023	9/28/2011
MELT COOLER AND VALVING SYSTEM FOR UNDERWATER PELLETIZING PROCESS	Italy (EP)	EP2007561	1/7/2013
VOLATILE INGREDIENTS	Italy (EP)	EP2008784	2/27/2013
PELLETIZING DEVICE AND BLADE HEAD AND/OR GRINDING HEAD FOR SUCH A PELLETIZING DEVICE	Italy (EP)	EP2212077	10/16/2013
POSITIONABLE GAS INJECTION NOZZLE FOR AN UNDERWATER PELLETIZING SYSTEM	Italy (EP)	EP2296856	11/13/2013
SELF-CLEANING CENTRIFUGAL PELLET DRYER AND METHOD THEREOF	Italy (EP)	EP1650516	4/2/2014



THERMALLY INSULATED DIE PLATE ASSEMBLY FOR UNDERWATER PELLETIZING AND THE LIKE	Italy (EP)	EP2326474	3/18/2015
STEEP ANGLE CUTTER HUB AND BLADE ASSEMBLY	Italy (EP)	EP1582327	5/13/2015
APPARATUS AND METHOD FOR CONTROLLED PELLETIZATION PROCESSING	Italy (EP)	EP2700489	5/27/2015
APPARATUS TO ACHIEVE FORMULATION AND REACTIVE POLYMERIZATION UTILIZING A THERMALLY AND ATMOSPHERICALLY CONTROLLED FEEDING SYSTEM FOR THERMOPLASTIC MATERIALS	Italy (EP)	EP2349665	8/19/2015
MELT CUTTER	Italy (EP)	2747969	12/20/2015
FILTRATION SYSTEM	Italy (EP)	2629871	2/10/2016
METHOD AND APPARATUS FOR MAKING CRYSTALLINE POLYMERIC PELLETS (CPT)	Italy (EP)	1883517	2/17/2016
SOLID FACE DIE PLATE	Italy (EP)	2018257	2/24/2016
ML DRYER SCREEN	Italy (EP)	1830963	4/27/2016
Inwardly Embossed Deflectors	Italy (EP)	2147272	8/17/2016
HOLLOW PELLETS	Italy (EP)	2291276	8/24/2016
WAX PROCESS	Italy (EP)	1991402	12/28/2016
PIN DRIVE QUICK DISCONNECT HUB	Italy (EP)	2969442	2/1/2017
EAC Cutterhub	Italy (EP)	2442954	5/31/2017
FILTRATION DEVICE - DIV.	Italy (EP)	2712664	5/31/2017
CONTINUOUS BAGGING PROCESSES AND SYSTEMS	Italy (EP)	2401205	8/9/2017
OUTWARDLY PROJECTING EMBOSSED DEFLECTOR STRIPS	Italy (EP)	3 014 206	8/9/2017
MELT CUTTER II	Italy (EP)	2958722	10/4/2017
Melt Component Connection Adapter	Italy (EP)	3237172	5/2/2018
<b><u>Title</u></b>	<b><u>Country</u></b>	<b><u>Patent Number</u></b>	<b><u>Issue Date</u></b>
SUPPORT RING FOR PELLET DRYER SCREEN	Japan	4633882	11/26/2010
CENTER HEATED DIE PLATE FOR UNDERWATER PELLETIZER	Japan	4789956	7/29/2011
METHOD AND APPARATUS FOR MAKING CRYSTALLINE PET PELLETS	Japan	4828430	9/22/2011
MELT COOLER AND VALVING SYSTEM FOR UNDERWATER PELLETIZING PROCESS	Japan	4833334	9/30/2011
SELF CLEANING CENTRIFUGAL PELLET DRYER AND METHOD THEREOF	Japan	5068943	8/24/2012
APPARATUS AND METHOD FOR CONTROLLED PELLETIZATION PROCESSING	Japan	5203213	2/22/2013
METHOD AND APPARATUS FOR MAKING CRYSTALLINE POLYMERIC PELLETS AND GRANULES	Japan	5265354	5/10/2013
METHOD AND APPARATUS FOR UNDERWATER PELLETIZING BIOMATERIAL COMPOSITES	Japan	5301274	6/28/2013
POSITIONABLE GAS INJECTION NOZZLE FOR AN UNDERWATER PELLETIZING SYSTEM	Japan	5364789	9/13/2013
METHOD AND APPARATUS TO ACHIEVE CRYSTALLIZATION OF POLYMERS UTILIZING MULTIPLE PROCESSING SYSTEMS	Japan	5503555	3/20/2014
THERMALLY INSULATED DIE PLATE ASSEMBLY FOR UNDERWATER PELLETIZING AND THE LIKE	Japan	5571082	7/4/2014

CENTRIFUGAL PELLET DRYER ML SCREEN	Japan	5583326	7/25/2014
METHOD AND DEVICE FOR EXTRUSION OF HOLLOW PELLETS	Japan	5636361	10/24/2014
CONTINUOUS PELLETIZING, DRYING AND BAGGING SYSTEMS WITH IMPROVED THROUGHPUT	Japan	5680635	1/16/2015
PELLETIZING DEVICE AND BLADE HEAD AND/OR GRINDING HEAD FOR SUCH A PELLETIZING DEVICE	Japan	5685684	1/30/2015
METHOD AND APPARATUS FOR ENHANCED MINIMAL SHEAR MOLDING UTILIZING EXTRUSIONAL, PELLETIZATION, AND MELT RHEOLOGICAL CONTROL OF PELLETS AND MICROPELLETS AND MOLDED OBJECTS MADE THEREFROM	Japan	5692637	2/13/2015
DRYER SYSTEM WITH IMPROVED THROUGHPUT	Japan	5697597	2/20/2015
FILTRATION DEVICE	Japan	5714114	3/20/2015
APPARATUS AND METHOD FOR PELLETIZING WAX AND WAX-LIKE MATERIALS	Japan	5726406	4/10/2015
SYSTEM FOR CONTROLLING CUTTER HUB POSITION IN UNDERFLUID PELLETIZER	Japan	5785540	9/30/2015
CENTRIFUGAL PELLET DRYER SCREEN WITH INTEGRAL EMBOSSED DEFLECTOR STRIP	Japan	5795161	10/14/2015
Asphalt Pelletizing/Coating Process	Japan	5872546	1/22/2016
Rotary Valve System	Japan	5 933 699	5/13/2016
CONTINUOUS BAGGING PROCESSES AND SYSTEMS	Japan	6063125	12/22/2016
OUTWARDLY PROJECTING EMBOSSED DEFLECTOR STRIPS	Japan	6093094	2/17/2017
PIN DRIVE QUICK DISCONNECT HUB	Japan	6105149	3/10/2017
Rotary Valve System	Japan	6232011	10/27/2017
Melt Cutter II	Japan	6328148	4/27/2018
<b><u>Title</u></b>	<b><u>Country</u></b>	<b><u>Patent Number</u></b>	<b><u>Issue Date</u></b>
POLYIMIDE BEADS AND METHOD FOR PRODUCTION THEREOF (co-owned with Solvay/Rhodia)	Kazakhstan (EA)	14994	4/29/2011
<b><u>Title</u></b>	<b><u>Country</u></b>	<b><u>Patent Number</u></b>	<b><u>Issue Date</u></b>
WATER FLOW GUIDE FOR PELLETIZER	Korea	100647253	11/10/2006
INSULATION PLUG FOR PELLETIZER DIE PLATE CUTTER RECESS	Korea	100746648	7/31/2007
STARTER VALVE	Korea	101239497	2/26/2013
STARTER VALVE	Korea	101264946	5/9/2013
CENTRIFUGAL PELLET DRYER SCREEN	Korea	101266839	5/16/2013
CENTER HEATED DIE PLATE FOR UNDERWATER PELLETIZER	Korea	101266840	5/16/2013
SELF CLEANING CENTRIFUGAL PELLET DRYER AND METHOD THEREOF	Korea	101276553	6/13/2013
METHOD AND APPARATUS FOR UNDERWATER PELLETIZING POLYMER BIOMATERIAL COMPOSITES WITH REDUCED MOISTURE CONTENT	Korea	101308562	9/13/2013
METHOD AND APPARATUS TO ACHIEVE FORMULATION AND REACTIVE POLYMERIZATION UTILIZING A THERMALLY AND ATMOSPHERICALLY CONTROLLED FEEDING SYSTEM FOR THERMOPLASTIC MATERIALS	Korea	101343201	12/12/2013



APPARATUS AND METHOD FOR CONTROLLED PELLETIZATION PROCESSING	Korea	101357647	1/24/2014
METHOD AND APPARATUS FOR MAKING CRYSTALLINE POLYMERIC PELLETS AND GRANULES	Korea	101379345	3/24/2014
APPARATUS AND METHOD FOR PELLETIZING WAX AND WAX-LIKE MATERIALS	Korea	101392713	4/30/2014
MELT COOLER AND VALVING SYSTEM FOR UNDERWATER PELLETIZING PROCESS	Korea	101408161	6/10/2014
SOLID FACE DIE PLATE	Korea	101408165	6/10/2014
STEEP ANGLE CUTTER HUB WITH BLUNT EDGE BLADES	Korea	101445060	9/21/2014
PELLETIZING DEVICE AND BLADE HEAD AND/OR GRINDING HEAD FOR SUCH A PELLETIZING DEVICE	Korea	101455437	10/21/2014
METHOD AND APPARATUS FOR ENHANCED MINIMAL SHEAR MOLDING UTILIZING EXTRUSIONAL, PELLETIZATION, AND MELT RHEOLOGICAL CONTROL OF PELLETS AND MICROPELLETS AND MOLDED OBJECTS MADE THEREFROM	Korea	101479003	12/29/2014
FILTRATION DEVICE	Korea	101506555	3/23/2015
CONTINUOUS BAGGING PROCESSES AND SYSTEMS	Korea	101517455	4/28/2015
SIEVE (EM SCREEN)	Korea	101534875	7/1/2015
HOLLOW PELLETS	Korea	101591121	1/27/2016
DRYER SYSTEM WITH IMPROVED THROUGHPUT	Korea	10-1703939	2/1/2017
HEAT FLUX DIE	Korea	1717791	3/17/2017
EAC Cutterhub	Korea	10-1762209	7/21/2017
PIN DRIVE QUICK DISCONNECT HUB	Korea	1768353	8/8/2017
<b><u>Title</u></b>	<b><u>Country</u></b>	<b><u>Patent Number</u></b>	<b><u>Issue Date</u></b>
POLYMIDE BEADS AND METHOD FOR PRODUCTION THEREOF (co-owned with Solvay/Rhodia)	Kyrgyzstan (EA)	14994	4/29/2011
<b><u>Title</u></b>	<b><u>Country</u></b>	<b><u>Patent Number</u></b>	<b><u>Issue Date</u></b>
MELT COOLER AND VALVING SYSTEM FOR UNDERWATER PELLETIZING PROCESS	Malaysia	MY-155308-A	9/30/2015
CONTINUOUS BAGGING PROCESSES AND SYSTEMS	Malaysia	MY-159174-A	12/30/2016
Inwardly Embossed Deflectors	Malaysia	MY-162101-A	5/31/2017
HEAT FLUX DIE	Malaysia	MY-163277-A	8/30/2017
<b><u>Title</u></b>	<b><u>Country</u></b>	<b><u>Patent Number</u></b>	<b><u>Issue Date</u></b>
CENTRIFUGAL PELLET DRYER SCREEN	Mexico	291544	11/1/2011
MELT COOLER AND VALVING SYSTEM FOR UNDERWATER PELLETIZING PROCESS	Mexico	294381	1/6/2012
APPARATUS AND METHOD FOR CONTROLLED PELLETIZATION PROCESSING	Mexico	295872	2/9/2012
METHOD AND APPARATUS FOR UNDERWATER PELLETIZING POLYMER BIOMATERIAL COMPOSITES WITH REDUCED MOISTURE CONTENT	Mexico	296356	2/21/2012
METHOD AND APPARATUS FOR ENHANCED MINIMAL SHEAR MOLDING UTILIZING EXTRUSIONAL, PELLETIZATION, AND MELT RHEOLOGICAL CONTROL OF PELLETS AND MICROPELLETS AND MOLDED OBJECTS MADE THEREFROM	Mexico	305052	11/7/2012

CENTRIFUGAL PELLET DRYER SCREEN WITH INTEGRAL EMBOSSED DEFLECTOR STRIPS	Mexico	308731	4/15/2013
METHOD AND APPARATUS FOR MAKING CRYSTALLINE POLYMERIC PELLETS AND GRANULES	Mexico	309693	5/17/2013
APPARATUS AND METHOD FOR PELLETIZING WAX AND WAX-LIKE MATERIALS	Mexico	313938	10/4/2013
POSITIONABLE GAS INJECTION NOZZLE FOR AN UNDERWATER PELLETIZING SYSTEM	Mexico	314322	10/17/2013
SOLID FACE DIE PLATE	Mexico	316630	12/18/2013
CONTINUOUS PELLETIZING, DRYING AND BAGGING SYSTEMS WITH IMPROVED THROUGHPUT	Mexico	317772	2/5/2014
DRYER SYSTEM WITH IMPROVED THROUGHPUT	Mexico	318922	4/1/2014
THERMALLY INSULATED DIE PLATE ASSEMBLY FOR UNDERWATER PELLETIZING AND THE LIKE	Mexico	320241	5/16/2014
CONTINUOUS BAGGING PROCESSES AND SYSTEMS	Mexico	330078	5/14/2015
DRYER SYSTEM WITH IMPROVED THROUGHPUT	Mexico	10-1703939	2/1/2017
<b><u>Title</u></b>	<b><u>Country</u></b>	<b><u>Patent Number</u></b>	<b><u>Issue Date</u></b>
POLYIMIDE BEADS AND METHOD FOR PRODUCTION THEREOF (co-owned with Solvay/Rhodia)	Moldova (EA)	14994	4/29/2011
<b><u>Title</u></b>	<b><u>Country</u></b>	<b><u>Patent Number</u></b>	<b><u>Issue Date</u></b>
PELLETIZING DEVICE AND BLADE HEAD AND/OR GRINDING HEAD FOR SUCH A PELLETIZING DEVICE	Netherlands (EP)	EP2212077	10/16/2013
APPARATUS AND METHOD FOR CONTROLLED PELLETIZATION PROCESSING	Netherlands (EP)	EP2700489	5/27/2015
Inwardly Embossed Deflectors	Netherlands (EP)	EP2147272	8/17/2016
HOLLOW PELLETS	Netherlands (EP)	EP2291276	8/24/2016
FILTRATION DEVICE (CBF)	Netherlands (EP)	EP2712664	5/31/2017
OUTWARDLY PROJECTING EMBOSSED DEFLECTOR STRIPS	Netherlands (EP)	EP3014206	8/9/2017
<b><u>Title</u></b>	<b><u>Country</u></b>	<b><u>Patent Number</u></b>	<b><u>Issue Date</u></b>
MELT COOLER AND VALVING SYSTEM FOR AN UNDERWATER PELLETIZING PROCESS	Philippines	1-2008-502339	10/3/2013
<b><u>Title</u></b>	<b><u>Country</u></b>	<b><u>Patent Number</u></b>	<b><u>Issue Date</u></b>
FILTRATION SYSTEM	Poland	2629871	2/10/2016
FILTRATION DEVICE	Poland	2712664	5/31/2017
<b><u>Title</u></b>	<b><u>Country</u></b>	<b><u>Patent Number</u></b>	<b><u>Issue Date</u></b>
METHOD AND APPARATUS FOR MAKING CRYSTALLINE POLYMERIC PELLETS AND GRANULES	Russia (EA)	12678	12/30/2009
METHOD AND APPARATUS FOR UNDERWATER PELLETIZING POLYMER BIOMATERIAL COMPOSITES WITH REDUCED MOISTURE CONTENT	Russia (EA)	12997	2/26/2010
POLYIMIDE BEADS AND METHOD FOR PRODUCTION THEREOF (co-owned with Solvay/Rhodia)	Russia (EA)	14994	4/29/2011
THERMALLY INSULATED DIE PLATE ASSEMBLY FOR UNDERWATER PELLETIZING AND THE LIKE	Russia (EA)	19076	12/30/2013
<b><u>Title</u></b>	<b><u>Country</u></b>	<b><u>Patent Number</u></b>	<b><u>Issue Date</u></b>
METHOD AND APPARATUS FOR PELLETIZING BIOMATERIAL COMPOSITES	Singapore	140261	10/29/2010

APPARATUS AND METHOD FOR CONTROLLED PELLETIZATION PROCESSING	Singapore	142890	5/31/2011
THERMALLY INSULATED DIE PLATE ASSEMBLY FOR UNDERWATER PELLETIZING AND THE LIKE	Singapore	168911	9/30/2013
VALVE DEVICES, SYSTEMS, AND METHODS FOR CONTROLLING THE DISTRIBUTION OF MATERIALS	Singapore	195221	4/8/2015
<b><u>Title</u></b>	<b><u>Country</u></b>	<b><u>Patent Number</u></b>	<b><u>Issue Date</u></b>
METHOD AND APPARATUS FOR UNDERWATER PELLETIZING POLYMER BIOMATERIAL COMPOSITES	South Africa	2008/01845	11/26/2008
METHOD AND APPARATUS FOR ENHANCED MINIMAL SHEAR MOLDING UTILIZING EXTRUSIONAL, PELLETIZATION, AND MELT RHEOLOGICAL CONTROL OF PELLETS AND MICROPELLETS AND MOLDED OBJECTS MADE THEREFROM	South Africa	2010/01149	4/28/2011
THERMALLY INSULATED DIE PLATE ASSEMBLY FOR UNDERWATER PELLETIZING AND THE LIKE	South Africa	2011/01115	4/25/2012
CONTINUOUS BAGGING PROCESSES AND SYSTEMS	South Africa	2011/05876	10/31/2012
<b><u>Title</u></b>	<b><u>Country</u></b>	<b><u>Patent Number</u></b>	<b><u>Issue Date</u></b>
MELT COOLER AND VALVING SYSTEM FOR UNDERWATER PELLETIZING PROCESS	Switzerland (EP)	EP2007561	1/7/2013
APPARATUS AND METHOD FOR CONTROLLED PELLETIZATION PROCESSING	Switzerland (EP)	EP2700489	5/27/2015
<b><u>Title</u></b>	<b><u>Country</u></b>	<b><u>Patent Number</u></b>	<b><u>Issue Date</u></b>
SECTIONED ADJUSTABLE WATER FLOW GUIDE FOR PELLETIZER	Taiwan	I293269	2/11/2008
SELF-CLEANING CENTRIFUGAL PELLET DRYER AND METHOD THEREOF	Taiwan	I355972	1/11/2012
METHOD AND APPARATUS FOR MAKING CRYSTALLINE POLYMERIC PELLETS AND GRANULES	Taiwan	I392572	4/11/2013
CENTER HEATED DIE PLATE FOR UNDERWATER PELLETIZER	Taiwan	I396616	5/21/2013
APPARATUS AND METHOD FOR PELLETIZING WAX AND WAX-LIKE MATERIALS	Taiwan	I411671	10/11/2013
MELT COOLER AND VALVING SYSTEM FOR UNDERWATER PELLETIZING PROCESS	Taiwan	I412448	10/21/2013
POLYIMIDE BEADS AND METHOD FOR PRODUCTION THEREOF (co-owned with Solvay/Rhodia)	Taiwan	I428221	3/1/2014
METHOD AND APPARATUS FOR ENHANCED MINIMAL SHEAR MOLDING UTILIZING EXTRUSIONAL, PELLETIZATION, AND MELT RHEOLOGICAL CONTROL OF PELLETS AND MICROPELLETS AND MOLDED OBJECTS MADE THEREFROM	Taiwan	I429690	3/11/2014
METHOD AND APPARATUS TO ACHIEVE FORMULATION AND REACTIVE POLYMERIZATION UTILIZING A THERMALLY AND ATMOSPHERICALLY CONTROLLED FEEDING SYSTEM FOR THERMOPLASTIC MATERIALS	Taiwan	I432306	4/1/2014
CENTRIFUGAL PELLET DRYER SCREEN WITH INTEGRAL EMBOSSED DEFLECTOR STRIPS	Taiwan	I437198	5/11/2014

METHOD AND APPARATUS FOR UNDERWATER PELLETIZING POLYMER BIOMATERIAL COMPOSITES WITH REDUCED MOISTURE CONTENT	Taiwan	I440658	6/11/2014
POSITIONABLE GAS INJECTION NOZZLE FOR AN UNDERWATER PELLETIZING SYSTEM	Taiwan	I466768	1/1/2015
SIEVE (EM SCREEN)	Taiwan	I468227	1/11/2015
METHOD AND DEVICE FOR EXTRUSION OF HOLLOW PELLETS	Taiwan	I471211	2/1/2015
DRYER SYSTEM WITH IMPROVED THROUGHPUT	Taiwan	I481490	4/21/2015
INSULATED DIE PLATE ASSEMBLY FOR UNDERWATER PELLETIZING AND THE LIKE	Taiwan	I494202	8/1/2015
VALVE DEVICES, SYSTEMS AND METHODS FOR CONTROLLING THE DISTRIBUTION OF MATERIALS	Taiwan	I499548	9/11/2015
PELLETIZING DEVICE AND BLADE HEAD AND/OR GRINDING HEAD FOR SUCH A PELLETIZING DEVICE	Taiwan	I503214	10/11/2015
FILTRATION SYSTEM	Taiwan	I517889	1/21/2016
PCS/Split Flow	Taiwan	I523745	3/1/2016
CONTINUOUS BAGGING PROCESSES AND SYSTEMS	Taiwan	I531509	5/1/2016
EAC Cutterhub	Taiwan	I549801	9/21/2016
PIN DRIVE QUICK DISCONNECT HUB	Taiwan	I599463	9/21/2017
MELT CUTTER	Taiwan	I608916	12/21/2017
<b><u>Title</u></b>	<b><u>Country</u></b>	<b><u>Patent Number</u></b>	<b><u>Issue Date</u></b>
POLYIMIDE BEADS AND METHOD FOR PRODUCTION THEREOF (co-owned with Solvay/Rhodia)	Tajikistan (EA)	14994	4/29/2011
<b><u>Title</u></b>	<b><u>Country</u></b>	<b><u>Patent Number</u></b>	<b><u>Issue Date</u></b>
SIEVE (EM SCREEN)	Thailand	44161	5/11/2015
MELT COOLER AND VALVING SYSTEM FOR UNDERWATER PELLETIZING PROCESS	Thailand	45329	7/28/2015
CENTRIFUGAL PELLET DRYER SCREEN WITH INTEGRAL EMBOSSSED DEFLECTOR STRIPS	Thailand	45862	9/11/2015
SOLID FACE DIE PLATE	Thailand	50394	7/12/2016
METHOD AND APPARATUS FOR UNDERWATER PELLETIZING POLYMER BIOMATERIAL COMPOSITES	Thailand	52701	12/2/2016
HEAT FLUX DIE	Thailand	52702	12/2/2016
HOLLOW PELLETS	Thailand	54929	5/11/2017
POSITIONABLE GAS INJECTION NOZZLE	Thailand	56428	8/4/2017
METHOD AND APPARATUS TO ACHIEVE CRYSTALLIZATION OF POLYMERS UTILIZING MULTIPLE PROCESSING SYSTEMS	Thailand	58302	10/16/2017
APPARATUS AND METHOD FOR CONTROLLED PELLETIZATION PROCESSING	Thailand	59237	11/30/2017
<b><u>Title</u></b>	<b><u>Country</u></b>	<b><u>Patent Number</u></b>	<b><u>Issue Date</u></b>
MELT COOLER AND VALVING SYSTEM FOR UNDERWATER PELLETIZING PROCESS	Turkey (EP)	EP2007561	1/7/2013
VOLATILE INGREDIENTS	Turkey (EP)	EP2008784	2/27/2013
METHOD AND APPARATUS FOR MAKING CRYSTALLINE PET PELLETS	Turkey (EP)	EP1684961	10/2/2013

PELLETIZING DEVICE AND BLADE HEAD AND/OR GRINDING HEAD FOR SUCH A PELLETIZING DEVICE	Turkey (EP)	EP2212077	10/16/2013
APPARATUS AND METHOD FOR CONTROLLED PELLETIZATION PROCESSING	Turkey (EP)	EP2700489	5/27/2015
FILTRATION SYSTEM	Turkey (EP)	EP2629871	2/10/2016
HOLLOW PELLETS	Turkey (EP)	EP2291276	8/24/2016
WAX PROCESS	Turkey (EP)	EP1991402	12/28/2016
FILTRATION DEVICE - DIV.	Turkey (EP)	EP2712664	5/31/2017
CONTINUOUS BAGGING PROCESSES AND SYSTEMS	Turkey (EP)	EP2401205	8/9/2017
Melt Component Connection Adapter	Turkey (EP)	EP3237172	5/2/2018
<b><u>Title</u></b>	<b><u>Country</u></b>	<b><u>Patent Number</u></b>	<b><u>Issue Date</u></b>
POLYIMIDE BEADS AND METHOD FOR PRODUCTION THEREOF (co-owned with Solvay/Rhodia)	Turkmenistan (EA)	14994	4/29/2011
<b><u>Title</u></b>	<b><u>Country</u></b>	<b><u>Patent Number</u></b>	<b><u>Issue Date</u></b>
SUPPORT RING FOR PELLET DRYER SCREEN	United States	6,138,375	10/31/2000
CENTRIFUGAL PELLET DRYER FOR SMALL APPLICATIONS	United States	6,237,244	5/29/2001
FLOW GUIDE FOR UNDERWATER PELLETIZER	United States	6,551,087	4/22/2003
DEFLECTOR FOR CENTRIFUGAL PELLET DRYER SCREEN	United States	6,739,457	5/25/2004
CENTRIFUGAL PELLET DRYER	United States	6,807,748	10/26/2004
INSULATION PLUG FOR UNDERWATER PELLETIZER DIE FACE RECESS	United States	6,824,371	11/30/2004
UNDERWATER PELLETIZER WITH POSITIVELY CONTROLLED CUTTER HUB	United States	7,033,152	4/25/2006
SELF CLEANING CENTRIFUGAL PELLET DRYER AND METHOD THEREOF	United States	7,171,762	2/6/2007
STEEP ANGLE CUTTER HUB WITH PERPENDICULAR BLADE CONTACT SURFACE	United States	7,267,540	9/11/2007
STEEP ANGLE CUTTER HUB AND BLADE ASSEMBLY	United States	7,318,719	1/15/2008
FLOW GUIDE FOR UNDERWATER PELLETIZER	United States	7,393,484	7/1/2008
CENTER HEATED DIE PLATE FOR UNDERWATER PELLETIZER	United States	7,402,034	7/22/2008
SELF CLEANING CENTRIFUGAL DRYER SYSTEM AND METHOD THEREOF	United States	7,421,802	9/9/2008
CENTER HEATED DIE PLATE WITH TWO HEAT ZONES FOR UNDERWATER PELLETIZER	United States	7,524,179	4/28/2009
MELT COOLER AND VALVING SYSTEM FOR AN UNDERWATER PELLETIZING PROCESS	United States	RE 45,113	8/10/2010
POSITIONABLE GAS INJECTION NOZZLE ASSEMBLY FOR AN UNDERWATER PELLETIZING SYSTEM	United States	8,007,701	8/30/2011
POSITIONABLE GAS INJECTION NOZZLE ASSEMBLY FOR AN UNDERWATER PELLETIZING SYSTEM	United States	8,011,912	9/6/2011
METHOD AND APPARATUS TO ACHIEVE CRYSTALLIZATION OF POLYMERS UTILIZING MULTIPLE PROCESSING SYSTEMS	United States	8,080,196	12/20/2011
STARTER VALVE	United States	8,187,512	5/29/2012
DRYER SYSTEM WITH IMPROVED THROUGHPUT	United States	8,205,350	6/26/2012
CENTRIFUGAL PELLET DRYER SCREEN WITH INTEGRAL EMBOSSED DEFLECTOR STRIPS	United States	8,220,177	7/17/2012

APPARATUS AND METHOD FOR CONTROLLED PELLETIZATION PROCESSING	United States	8,303,871	11/6/2012
METHOD AND APPARATUS FOR MAKING CRYSTALLINE POLYMERIC PELLETS AND GRANULES	United States	8,361,364	1/29/2013
CENTRIFUGAL DRYER (EM DESIGN)	United States	8,365,430	2/5/2013
METHOD AND APPARATUS FOR MAKING CRYSTALLINE PET PELLETS	United States	8,366,428	2/5/2013
STARTER VALVE	United States	8,414,283	4/9/2013
METHOD AND APPARATUS TO ACHIEVE FORMULATION AND REACTIVE POLYMERIZATION UTILIZING A THERMALLY ATMOSPHERICALLY CONTROLLED FEEDING SYSTEM FOR THERMOPLASTIC MATERIALS	United States	8,444,923	5/21/2013
SOLID FACE DIE PLATE	United States	8512021	8/20/2013
APPARATUS AND METHOD FOR PELLETIZING WAX AND WAX-LIKE MATERIALS	United States	8562883	10/22/2013
CONTINUOUS PELLETIZING, DRYING AND BAGGING SYSTEMS WITH IMPROVED THROUGHPUT	United States	8,671,647	3/18/2014
THERMALLY INSULATED DIE PLATE ASSEMBLY FOR UNDERWATER PELLETIZING AND THE LIKE	United States	8,708,688	4/29/2014
METHOD AND DEVICE FOR EXTRUSION OF HOLLOW PELLETS	United States	8,834,760	9/16/2014
VALVE DEVICES, SYSTEMS, AND METHODS FOR CONTROLLING THE DISTRIBUTION OF MATERIALS	United States	8,863,931	10/21/2014
CONTINUOUS BAGGING PROCESSES AND SYSTEMS	United States	8,955,294	2/17/2015
METHOD AND APPARATUS FOR ENHANCED MINIMAL SHEAR MOLDING UTILIZING EXTRUSIONAL, PELLETIZATION, AND MELT RHEOLOGICAL CONTROL OF PELLETS AND MICROPELLETS AND MOLDED OBJECTS MADE THEREFROM	United States	8,969,435	3/3/2015
METHOD AND APPARATUS FOR MAKING CRYSTALLINE POLYMERIC PELLETS AND GRANULES	United States	9,032,641	5/19/2015
PELLETIZING DEVICE AND BLADE HEAD AND/OR GRINDING HEAD FOR SUCH A PELLETIZING DEVICE	United States	9,079,333	7/14/2015
SOLID FACE DIE PLATE	United States	9,149,954	10/6/2015
VALVE DEVICES, SYSTEMS, AND METHODS FOR CONTROLLING THE DISTRIBUTION OF MATERIALS	United States	9,187,247	11/17/2015
PCS/Split Flow	United States	9,259,857	2/16/2016
Asphalt Pelletizing/Coating Process	United States	9,382,423	7/5/2016
EAC Cutterhub	United States	9,481,122	11/1/2016
METHOD AND APPARATUS FOR MAKING CRYSTALLINE PET PELLETS	United States	9,492,948	11/15/2016
PIN DRIVE QUICK DISCONNECT HUB	United States	9,630,347	4/25/2017
WAX PROCESS	United States	9,649,802	5/16/2017
Polyamide Beads and Method of Production Thereof	United States	9,676,121	6/13/2017
Tumbler System	United States	9,782,705	10/10/2017
STARTER VALVE	United States	9,789,640	10/17/2017
HOLLOW PELLETS	United States	9,815,223	11/14/2017
MELT CUTTER II	United States	9,821,503	11/21/2017
DEVICE FOR SELF-ALIGNING OF CUTTING HUB ASSEMBLY	United States	9,873,211	1/23/2018





































