

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM320453

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	Supplemental Security Agreement		
CONVEYING PARTY DATA			
Name	Formerly	Execution Date	Entity Type
Mold-Masters (2007) Limited		10/17/2014	CORPORATION: ONTARIO
RECEIVING PARTY DATA			
Name:	Bank of America, N.A., as collateral agent		
Street Address:	20975 Swenson Drive, Suite 200		
City:	Waukesha		
State/Country:	WISCONSIN		
Postal Code:	53186		
Entity Type:	Association: UNITED STATES		
PROPERTY NUMBERS Total: 33			
Property Type	Number	Word Mark	
Registration Number:	2802817	MERLIN	
Registration Number:	1918627	MOLD-MASTERS ACADEMY	
Registration Number:	1186387	MASTER-SHOT	
Registration Number:	1933748	DURA CENTI-SHOT	
Registration Number:	1447183	SCAN-MASTER	
Registration Number:	1984430	DURA HECTO-SHOT	
Registration Number:	2042134	DURA	
Registration Number:	1142933	HOT EDGE	
Registration Number:	1932033	DURA DECI-SHOT	
Registration Number:	2177077	DURA FEMTO-SHOT	
Registration Number:	2019486	DURA MEGA-SHOT	
Registration Number:	1932032	DURA PICO-SHOT	
Registration Number:	1282175	MASTER-PROBE	
Registration Number:	2389509	MERLIN	
Registration Number:	1020951	MOLD-MASTERS	
Registration Number:	1072894	MOLD-MASTERS SYSTEM	
Registration Number:	2940466	MASTER-SERIES	
Registration Number:	2911838		
Registration Number:	2911837		
Registration Number:	2911836		
TRADEMARK			

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Property Type	Number	Word Mark
Registration Number:	3243510	MASTERCARE
Registration Number:	3044626	MASTERSOLUTION
Registration Number:	3044627	MASTERSPEED
Registration Number:	3374206	ACCU-VALVE
Registration Number:	3357782	MELT-DISK
Registration Number:	3442833	FUSION SERIES
Registration Number:	4019742	MELT-LINK
Registration Number:	3944700	FEMTO-LITE
Registration Number:	4081127	MPET
Registration Number:	4005759	SPRINT
Registration Number:	4261800	MASTERPET
Registration Number:	4589056	IFLOW
Registration Number:	4416822	E-MULTI

CORRESPONDENCE DATA

Fax Number:

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

Email: michael.barys@thomsonreuters.com

Correspondent Name: Elaine Carrera, Legal Assistant

Address Line 1: 80 Pine St

Address Line 2: c/o Cahill Gordon & Reindel LLP

Address Line 4: New York, NEW YORK 10005

NAME OF SUBMITTER:	Elaine Carrera
SIGNATURE:	/Michael Barys TR/
DATE SIGNED:	10/17/2014

Total Attachments: 18

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SUPPLEMENT NO. 1 TO THE INTELLECTUAL PROPERTY SECURITY AGREEMENT

This SUPPLEMENT NO. 1 (this "Supplement No. 1") dated as of October 17, 2014, to the INTELLECTUAL PROPERTY SECURITY AGREEMENT, dated as of March 28, 2013, by and among the Persons listed on the signature pages hereto (the "Grantors"), and BANK OF AMERICA, N.A., as collateral agent for the Secured Parties (in such capacity, together with its successors in such capacity, the "Agent").

A. Capitalized terms used herein and not otherwise defined herein (including terms used in the preamble and the recitals) shall have the meanings assigned to such terms in the Canadian Security Agreement, dated as of March 28, 2013 (as amended, restated, amended and restated, supplemented or otherwise modified, the "Security Agreement"), by and among **MOLD-MASTERS (2007) LIMITED.**, a corporation formed under the laws of Canada ("Canadian Borrower"), each of the Subsidiaries listed on Annex A thereto, and **BANK OF AMERICA, N.A.**, a national banking association, as collateral agent for the Secured Parties (the "Agent").

B. The rules of construction and other interpretive provisions specified in Sections 1.2 through 1.7 of the Credit Agreement shall apply to this Supplement, including terms defined in the preamble and recitals hereto.

C. Pursuant to Section 4.3(e) of the Security Agreement, Grantors have agreed to execute or otherwise authenticate this Supplement No. 1 for recording the Security Interest granted under the Canadian Security Agreement to the Agent in such Grantors' Registered Intellectual Property with the Canadian Intellectual Property Office or any similar offices in any province or territory of Canada or any other country, group of countries or any political subdivision thereof necessary to perfect the Security Interest hereunder in such Registered Intellectual Property.

Accordingly, the Agent and Grantors agree as follows:

SECTION 1. Grant of Security. The Grantors hereby grant to the Agent for the benefit of the Secured Parties a security interest in all of such Grantors' right, title and interest in and to the Registered Intellectual Property set forth in Schedule A hereto (collectively, the "Collateral").

SECTION 2. Security for Canadian Secured Obligations. The grant of a security interest in the Collateral by Grantors under this Supplement No. 1 secures the payment of all amounts that constitute part of the Canadian Secured Obligations and would be owed to the Agent or the Secured Parties but for the fact that they are unenforceable or not allowable due to the existence of a bankruptcy or proceeding applicable to bankruptcy or insolvency, reorganization or similar proceeding involving such Grantors.

SECTION 3. Recordation. Grantors authorize and requests that this Supplement No. 1 be recorded at the Canadian Intellectual Property Office or any similar offices in any other country, group of countries or any political subdivision thereof.

SECTION 4. Grants, Rights and Remedies. This Supplement No. 1 has been entered into in conjunction with the provisions of the Security Agreement. Grantors hereby acknowledge and confirm that the grant of the security interest hereunder to, and the rights and remedies of, the Agent with respect to the Collateral are more fully set forth in the Security Agreement, the terms and provisions of which are incorporated herein by reference as if fully set forth herein. In the event of any conflict between the terms of this Supplement No. 1 and the terms of the Security Agreement, the terms of the Security Agreement shall govern.

SECTION 5. Counterparts. This Supplement No. 1 may be executed by one or more of the parties to this Supplement No. 1 on any number of separate counterparts (including by facsimile or other electronic transmission (i.e. a “pdf” or “tif”)), and all of said counterparts taken together shall be deemed to constitute one and the same instrument.

SECTION 6. GOVERNING LAW. THIS SUPPLEMENT NO. 1 AND THE RIGHTS AND OBLIGATIONS OF THE PARTIES HEREUNDER SHALL BE GOVERNED BY, AND CONSTRUED AND INTERPRETED IN ACCORDANCE WITH, THE LAWS OF THE PROVINCE OF ONTARIO AND THE LAWS OF CANADA APPLICABLE THEREIN, WITHOUT REGARD TO CONFLICT OF LAW PRINCIPLES.

SECTION 7. Severability. Any provision of this Supplement No. 1 that is prohibited or unenforceable in any jurisdiction shall, as to such jurisdiction, be ineffective to the extent of such prohibition or unenforceability without invalidating the remaining provisions hereof and in the Security Agreement, and any such prohibition or unenforceability in any jurisdiction shall not invalidate or render unenforceable such provision in any other jurisdiction. The parties hereto shall endeavor in good-faith negotiations to replace the invalid, illegal or unenforceable provisions with valid provisions the economic effect of which comes as close as possible to that of the invalid, illegal or unenforceable provisions.

SECTION 8. Notices. All notices, requests and demands pursuant hereto shall be made in accordance with Section 14.3 of the Credit Agreement. All communications and notices hereunder to Grantors shall be given to it in care of the Canadian Borrower at the Canadian Borrower’s address set forth in Section 14.3 of the Credit Agreement.

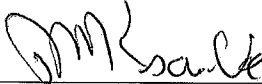
SECTION 9. Expenses. Grantors agree to reimburse the Agent for its reasonable, documented and invoiced out-of-pocket costs and expenses in connection with this Supplement No. 1, in accordance with Section 14.2 of the Credit Agreement.

SECTION 10. Release of Security Interest. In connection with the termination or release of Security Interests evidenced by the Security Agreement, the Agent shall execute and deliver to any Grantor, at such Grantor’s expense, all documents that such Grantor shall reasonably request to evidence such termination or release.

[SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, Grantor and the Agent have duly executed this Supplement No. 1 as of the day and year first above written.

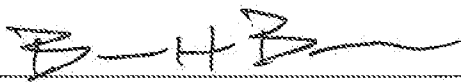
MOLD-MASTERS (2007) LIMITED, as Grantor

By: 
Name: Ronald M. Krisanda
Title: President

[Signature Page to Supplement No. 1 to Canadian IP Security Agreement]

TRADEMARK
REEL: 005383 FRAME: 0383

BANK OF AMERICA, N.A., as Agent

By: 

Name: Brad H. Breidenbach

Title: Senior Vice President

SCHEDULE A TO THE
INTELLECTUAL PROPERTY
CANADIAN SECURITY AGREEMENT

A. Canadian Intellectual Property

PATENTS:

Registered Owner/Grantor	Patent	Patent No.
Mold-Masters (2007) Limited	CLOSED LOOP CONTROL OF AUXILIARY INJECTION UNIT	2828014
Mold-Masters (2007) Limited	COINJECTION HOT RUNNER INJECTION MOLDING SYSTEM	2811247
Mold-Masters (2007) Limited	INJECTION MOLDING COOLING CORE HAVING SPIRAL GROOVES	2255798
Mold-Masters (2007) Limited	SPLIT THREAD INSERT	2807860
Mold-Masters (2007) Limited	INJECTION MOLDING NOZZLE WITH PRESSED IN HEATING ELEMENT AND INTEGRAL COLLAR PORTION	2152664
Mold-Masters (2007) Limited	NOZZLE TIP AND SEAL	2452112
Mold-Masters (2007) Limited	INJECTION MOLDING VALVE MEMBER ACTUATING MECHANISM	2261367
Mold-Masters (2007) Limited	INJECTION MOLDING APPARATUS WITH REMOVABLE NOZZLE SEAL	2262175

B. U.S. Intellectual Property

PATENTS:

Owner	Patent/Application No.	Title
MOLD-MASTERS (2007) LIMITED	8062025B2	Injection Molding Apparatus Having Rotating Vane and Method of Operating Same
MOLD-MASTERS (2007) LIMITED	5795599	Injection Molding Nozzle Guide and Sealing Ring
MOLD-MASTERS (2007) LIMITED	7172411B2	Injection Molding Manifold with Multi-Axis Adjustable Manifold Blocks and Nozzles
MOLD-MASTERS (2007) LIMITED	7581944B2	INJECTION MOLDING APPARATUS HAVING VALVE PIN BUSHING
MOLD-MASTERS (2007) LIMITED	7407380B2	Valve Bushing With Vent Channels For An Injection Molding Apparatus
MOLD-MASTERS (2007) LIMITED	6921259B2	A Valve Pin Guide for a Valve-Gated Nozzle
MOLD-MASTERS (2007) LIMITED	7134868B2	Diamond Coating of Nozzle Tip
MOLD-MASTERS (2007) LIMITED	8757998B2	CoInjection Hot Runner Injection Molding System

Owner	Patent/Application No.	Title
MOLD-MASTERS (2007) LIMITED	6561789B2	Compact Cartridge Hot Runner Nozzle and Method of Making
MOLD-MASTERS (2007) LIMITED	6648622B1	Apparatus and Method For Multi-Layer Injection Molding
MOLD-MASTERS (2007) LIMITED	7507081B2	Injection Nozzle System and Injection Machine Incorporating Same
MOLD-MASTERS (2007) LIMITED	7131834B2	Valve Pin Adjustment Device
MOLD-MASTERS (2007) LIMITED	7258536B2	Mold and Hot Runner Controller Located on the Machine Platen
MOLD-MASTERS (2007) LIMITED	6394784B1	Compact Cartridge Hot Runner Nozzle and Method of Making
MOLD-MASTERS (2007) LIMITED	8475155B2	Injection Molding Nozzle Having A Bracing Component And A Securing Component
MOLD-MASTERS (2007) LIMITED	8241032B2	Single Level Manifold For An Injection Molding Apparatus
MOLD-MASTERS (2007) LIMITED	7803306B2	Individual Cavity Shut-Off For An Injection Molding Apparatus
MOLD-MASTERS (2007) LIMITED	7614872B2	Melt Redistribution Element for an injection Molding Apparatus
MOLD-MASTERS (2007) LIMITED	7465165B2	Configurable Manifold
MOLD-MASTERS (2007) LIMITED	6761557B2	Compact Cartridge Hot Runner Nozzle and Method of Making
MOLD-MASTERS (2007) LIMITED	5707664	Heated Nozzle Manifolds In Common Plane Interconnected Through Connector Manifolds
MOLD-MASTERS (2007) LIMITED	8690563B2	Hot Runner Manifolds Interconnected In A Common Plane
MOLD-MASTERS (2007) LIMITED	6440350B1	Apparatus and Method For Multi-Layer Injection Molding
MOLD-MASTERS (2007) LIMITED	8328546B2	Auxiliary Injection Unit Integrated In Injection Molding System
MOLD-MASTERS (2007) LIMITED	7850442B2	EDGE-GATED NOZZLE
MOLD-MASTERS (2007) LIMITED	7108502B2	Hot Runner Nozzle with Interlaced Heater and Sensor
MOLD-MASTERS (2007) LIMITED	7713046B2	Coinjection Molding Apparatus and Related Hot--Runner Nozzle
MOLD-MASTERS (2007) LIMITED	6860732B2	Thermal Seal Between Manifold and Nozzle
MOLD-MASTERS (2007) LIMITED	7547208B2	Individual Cavity Shut-Off For An Injection Molding Apparatus
MOLD-MASTERS (2007) LIMITED	5441197	Method of Manufacturing Injection Molding Manifold Having A Melt Passage With An Elbow
MOLD-MASTERS (2007) LIMITED	7022278B2	Valve Pin Locking Mechanism
MOLD-MASTERS (2007) LIMITED	7678320B2	Anti-Drool Mechanism For a Sprue Bushing
MOLD-MASTERS (2007) LIMITED	7025586B2	A Valve Pin Guiding and Alignment System for an Injection Molding Machine
MOLD-MASTERS (2007) LIMITED	7462031B2	INJECTION MOLDING NOZZLE WITH RECESSED TERMINAL

Owner	Patent/Application No.	Title
MOLD-MASTERS (2007) LIMITED	8152513B2	Multiple-Gate Injection Molding Apparatus
MOLD-MASTERS (2007) LIMITED	8308475B2	INJECTION MOLDING APPARATUS HAVING VALVE PIN BUSHING
MOLD-MASTERS (2007) LIMITED	7998390B2	Multi- material Injection Molding Method and Apparatus
MOLD-MASTERS (2007) LIMITED	7244118B2	Hot Runner Nozzle and Manifold Seal
MOLD-MASTERS (2007) LIMITED	5843361	Injection Molding Manifolds with Melt Connector Bushing
MOLD-MASTERS (2007) LIMITED	7086852B2	Stack Injection Molding Apparatus with Separately Actuated Arrays of Valve Gates
MOLD-MASTERS (2007) LIMITED	6113381	Injection Molding Valve Member Actuating Mechanism
MOLD-MASTERS (2007) LIMITED	6323465B1	Externally Heated Hot-Runner Nozzle with Resistance Wire
MOLD-MASTERS (2007) LIMITED	6030198	Injection Molding Apparatus Having Melt Transfer and Dividing Bushing
MOLD-MASTERS (2007) LIMITED	5935615	Injection Molding Apparatus Having Melt Bore Through The Front End of The Pin
MOLD-MASTERS (2007) LIMITED	7877163B2	Method for Fast Manufacturing and Assembling of Hot Runner Systems
MOLD-MASTERS (2007) LIMITED	7108503B2	Tip Assembly Having at Least Three Components for Hot Runner Nozzle
MOLD-MASTERS (2007) LIMITED	5849343	Injection molding apparatus with a one-piece gate insert locating a cylindrical valve member
MOLD-MASTERS (2007) LIMITED	7040378B2	Injection Molding Component with Heating Element and Method of Making
MOLD-MASTERS (2007) LIMITED	7517214B2	Valve Bushing Having Thermally Insulative Component
MOLD-MASTERS (2007) LIMITED	7766646B2	Injection Molding Apparatus with Plate Actuation of Valve Pins
MOLD-MASTERS (2007) LIMITED	8206145B2	Injection Molding Apparatus having Edge-gated Runnerless Nozzle and Related Method of Tip Removal
MOLD-MASTERS (2007) LIMITED	7320590B2	Manifold Plug for an Injection Molding Apparatus
MOLD-MASTERS (2007) LIMITED	7320588B2	Extruded Shape for Distribution of Electrical Wiring, Hydraulic Fluid and Cooling Fluid around a Hot Runner System, Inside an Injection Mold
MOLD-MASTERS (2007) LIMITED	7131833B2	Nozzle with Thermally Conductive Device
MOLD-MASTERS (2007) LIMITED	8202082	Injection Molding Apparatus having Edge-gated Runnerless Nozzle and Related Method of Tip Removal
MOLD-MASTERS (2007) LIMITED	7972132B2	Injection Molding Valve Gated Hot Runner Nozzle
MOLD-MASTERS (2007) LIMITED	8425216B2	CYCLE COUNTING SYSTEM FOR INJECTION MOLDING ASSEMBLY
MOLD-MASTERS (2007) LIMITED	7753676B2	Multi-Piece Valve Pin Bushing
MOLD-MASTERS (2007) LIMITED	5705202	Four Heated Nozzle Manifolds Interconnected in a Common Plane
MOLD-MASTERS (2007) LIMITED	7559762B2	Open Loop Pressure Control For Injection Molding

Owner	Patent/Application No.	Title
MOLD-MASTERS (2007) LIMITED	8465688B2	Injection Molding Appartus Having Magnetic Valve Pin Coupling
MOLD-MASTERS (2007) LIMITED	6780003B2	Removable Heater For A Hot Runner Nozzle
MOLD-MASTERS (2007) LIMITED	6302680B1	Injection Molding Apparatus with Removable Nozzle Seal
MOLD-MASTERS (2007) LIMITED	6988883B2	Gap Seal Between a Nozzle and a Mold Component in an Injection Molding Apparatus
MOLD-MASTERS (2007) LIMITED	6852265B2	Method and Apparatus for Distributing Melt in a Multi-Level Stack Mold
MOLD-MASTERS (2007) LIMITED	7618253B2	Multiple-Gate Injection Molding Apparatus
MOLD-MASTERS (2007) LIMITED	7168941B2	Thermal Seal Between Manifold and Nozzle
MOLD-MASTERS (2007) LIMITED	8167608B2	Melt Channel Geometries For An Injection Molding System
MOLD-MASTERS (2007) LIMITED	7544056B2	VALVE-GATED INJECTION MOLDING NOZZLE HAVING AN ANNULAR FLOW
MOLD-MASTERS (2007) LIMITED	6955534B2	Improved Valve to Valve Melt Transfer Device
MOLD-MASTERS (2007) LIMITED	7137807B2	Hot Runner Nozzle With A Tip, A Tip Surrounding Piece And An Alignment Piece
MOLD-MASTERS (2007) LIMITED	6348171B1	Drool control apparatus and method
MOLD-MASTERS (2007) LIMITED	7320589B2	Hot Runner Manifold Plug for Rheological Balance in Hot Runner Injection Molding
MOLD-MASTERS (2007) LIMITED	7370417B2	Retainer for a mold gate insert for use in an injection molding apparatus
MOLD-MASTERS (2007) LIMITED	6638053B2	Compact Cartridge Hot Runner Nozzle and Method of Making
MOLD-MASTERS (2007) LIMITED	7780434B2	Tip Assembly Having at Least Three Components for Hot Runner Nozzle
MOLD-MASTERS (2007) LIMITED	6945767B2	Small Pitch Nozzle with a Thermally Conductive Insert for an Injection Molding Machine
MOLD-MASTERS (2007) LIMITED	8142182B2	Injection Molding Appartus Having Magnetic Valve Pin Coupling
MOLD-MASTERS (2007) LIMITED	6962492B2	Gap Seal Between Nozzle Components
MOLD-MASTERS (2007) LIMITED	7175419B2	Hot Runner Co-injection Nozzle
MOLD-MASTERS (2007) LIMITED	7201335B2	Injection Nozzle Tip
MOLD-MASTERS (2007) LIMITED	7918660B2	Injection Molding Actuator Position Sensing
MOLD-MASTERS (2007) LIMITED	7131832B2	Transfer Seal For A Removable Nozzle Tip Of An Injection Molding Apparatus
MOLD-MASTERS (2007) LIMITED	RE38396	Method of Making Injection Molding Cooled Thread Split Inserts
MOLD-MASTERS (2007) LIMITED	7168943B2	Guided Valve Pin For An Injection Molding Apparatus
MOLD-MASTERS (2007) LIMITED	7377768B2	Hot Runner Nozzle with Interlaced Heater and Sensor

Owner	Patent/Application No.	Title
MOLD-MASTERS (2007) LIMITED	5935616	Injection Molding Apparatus Having Inter-Manifold Melt Transfer Bushings
MOLD-MASTERS (2007) LIMITED	7303720B2	Melt Transfer Device For A Stack Injection Molding Apparatus
MOLD-MASTERS (2007) LIMITED	6992269B2	An Injection Nozzle Having a Heated Head Portion
MOLD-MASTERS (2007) LIMITED	7559760B2	MODULAR INJECTION NOZZLE HAVING A THERMAL BARRIER
MOLD-MASTERS (2007) LIMITED	6789745B1	Injection Nozzle Tip
MOLD-MASTERS (2007) LIMITED	8758002B2	Quick-Change Molding System For Injection Molding
MOLD-MASTERS (2007) LIMITED	8449287B2	Valve Pin For Accommodating Side Loading
MOLD-MASTERS (2007) LIMITED	6447283B1	Injection molding heater with melt bore therethrough
MOLD-MASTERS (2007) LIMITED	7780433B2	Hot Runner Nozzle Having Thermal Insert At Downstream End
MOLD-MASTERS (2007) LIMITED	7513771B2	INJECTION MOLDING NOZZLE WITH RECESSED TERMINAL
MOLD-MASTERS (2007) LIMITED	7524183B2	Front-mountable, Edge-gating Nozzle
MOLD-MASTERS (2007) LIMITED	8469687B2	CoInjection Hot Runner Injection Molding System
MOLD-MASTERS (2007) LIMITED	7931455B2	Injection Molding Apparatus Having Magnetic Valve Pin Coupling and Related Method
MOLD-MASTERS (2007) LIMITED	7314367B2	Insulating Collar for an Injection Molding Apparatus
MOLD-MASTERS (2007) LIMITED	7238019B2	Injection Molding Nozzle and Tip
MOLD-MASTERS (2007) LIMITED	RE41648E	Valve-Gated Injection Molding System with Side-Mounted Actuator
MOLD-MASTERS (2007) LIMITED	7396226B2	Edge Gate Nozzle Seal
MOLD-MASTERS (2007) LIMITED	7658606B2	Edge Gated Injection Molding Apparatus
MOLD-MASTERS (2007) LIMITED	61767004	Injection molding cooled cavity insert
MOLD-MASTERS (2007) LIMITED	7806681B2	Heater For A Manifold of An Injection Molding Apparatus / Plate Heater For A Manifold of An Injection Molding Apparatus
MOLD-MASTERS (2007) LIMITED	7192270B2	Tight Pitch Nozzle With Individual Valve Gate Control
MOLD-MASTERS (2007) LIMITED	7118703B2	Heat Dissipation Device For And Method of Dissipating Heat From A Nozzle
MOLD-MASTERS (2007) LIMITED	7510392B2	Injection nozzle with planar heater
MOLD-MASTERS (2007) LIMITED	7192268B2	Metering device for a nozzle of an injection molding apparatus
MOLD-MASTERS (2007) LIMITED	6274075B1	Five Layer Injection Molding Apparatus Having Four Position Valve Member Actuating Mechanism
MOLD-MASTERS (2007) LIMITED	7722351B2	Injection Molding Appartus Having Magnetic Valve Pin Coupling

Owner	Patent/Application No.	Title
MOLD-MASTERS (2007) LIMITED	7122145B2	Method and Apparatus for Distributing Melt in a Multi-Level Stack Mold
MOLD-MASTERS (2007) LIMITED	7611349B2	Injection Molding Nozzle Having An Annular Flow Tip
MOLD-MASTERS (2007) LIMITED	6270711B1	Injection Molding Apparatus Having Melt Bore Through The Front End of The Pin
MOLD-MASTERS (2007) LIMITED	5658604	Injection Molding Carbide Torpedo
MOLD-MASTERS (2007) LIMITED	7553150B2	Valve Pin Actuating Device For A Hot Runner Apparatus
MOLD-MASTERS (2007) LIMITED	8715547B2	CLOSED LOOP CONTROL OF AUXILIARY INJECTION UNIT
MOLD-MASTERS (2007) LIMITED	6769901B2	Injection Nozzle System and Injection Machine Incorporating Same
MOLD-MASTERS (2007) LIMITED	7175420B2	Valve gated injection molding system with independent flow control
MOLD-MASTERS (2007) LIMITED	6350401B1	Method of Multi-Layer Injection Molding
MOLD-MASTERS (2007) LIMITED	7614869B2	A Manifold Nozzle Connection For An Injection Molding System
MOLD-MASTERS (2007) LIMITED	6884061B2	Metering device for a nozzle of an injection molding apparatus
MOLD-MASTERS (2007) LIMITED	7210917B2	Two Position Double Injection Molding Apparatus and Method
MOLD-MASTERS (2007) LIMITED	8280544B2	SYSTEM FOR USE IN PERFORMANCE OF INJECTION MOLDING OPERATIONS
MOLD-MASTERS (2007) LIMITED	7344372B2	Injection Molding Nozzle Having An Annular Flow Tip
MOLD-MASTERS (2007) LIMITED	7326049B2	Cast Hot Runner Manifold for Injection Molding Apparatus
MOLD-MASTERS (2007) LIMITED	8282386B2	Injection Molding Apparatus
MOLD-MASTERS (2007) LIMITED	7416402B2	Sprue Bar Anti-Drool with Side Entry
MOLD-MASTERS (2007) LIMITED	5853777	Nozzle Retaining Apparatus
MOLD-MASTERS (2007) LIMITED	6062841	Sprue Gated Multi-Layer Injection Molding Apparatus
MOLD-MASTERS (2007) LIMITED	5614233	Injection molding nozzle with pressed in heating element and integral collar portion
MOLD-MASTERS (2007) LIMITED	7198740B2	Lateral Gating Injection Molding Apparatus
MOLD-MASTERS (2007) LIMITED	6752618B2	Injection Manifold Having a Valve Pin Guiding Device
MOLD-MASTERS (2007) LIMITED	7565221B2	Method for Fast Manufacturing and Assembling of Hot Runner Systems
MOLD-MASTERS (2007) LIMITED	7182591B2	Injection Nozzle System and Injection Machine Incorporating Same
MOLD-MASTERS (2007) LIMITED	7703188B2	Thermal Shroud and Method of Making Same
MOLD-MASTERS (2007) LIMITED	7963762B2	Injection Molding Apparatus Having Spring and Magnet Valve Pin Coupling

Owner	Patent/Application No.	Title
MOLD-MASTERS (2007) LIMITED	6655945B1	Apparatus and Method for Three Layer Injection Molding
MOLD-MASTERS (2007) LIMITED	7462030B2	Nozzle Having a Nozzle Body with Heated and Unheated Nozzle
MOLD-MASTERS (2007) LIMITED	5536165	Injection molding apparatus with nozzle advanceable to mount side gate seals
MOLD-MASTERS (2007) LIMITED	7223092B2	A Valve Pin Guiding and Alignment System for an Injection Molding Machine
MOLD-MASTERS (2007) LIMITED	7918663B2	Injection Molding Nozzle Wedge Seal
MOLD-MASTERS (2007) LIMITED	6009616	Method of Making Injection Molding Nozzle With Tip Insert
MOLD-MASTERS (2007) LIMITED	7128566B2	Valve Pin Guiding Tip For A Nozzle
MOLD-MASTERS (2007) LIMITED	7115226B2	Mold Flow Transfer Mechanism Having a Melt Homogenizing Device
MOLD-MASTERS (2007) LIMITED	6945768B2	Gap Seal Between a Nozzle and a Mold Component in an Injection Molding Apparatus
MOLD-MASTERS (2007) LIMITED	7179081B2	Front-mountable, Edge-gating Nozzle
MOLD-MASTERS (2007) LIMITED	RE41536E	Injection Molding Apparatus Having An Elongated Nozzle Incorporating Multiple Nozzle Bodies in Tandem
MOLD-MASTERS (2007) LIMITED	6318990B1	Injection Molding Nozzle Apparatus
MOLD-MASTERS (2007) LIMITED	7988445B2	Injection Molding Apparatus Having A Nozzle Tip Component For Taking Nozzle Out of Service
MOLD-MASTERS (2007) LIMITED	RE40478E	Valve Pin With Thermocouple
MOLD-MASTERS (2007) LIMITED	8308476	INJECTION MOLDING APPARATUS HAVING A MAGNETIC VALVE PIN COUPLING
MOLD-MASTERS (2007) LIMITED	7513772B2	Injection Molding Nozzle With Valve Pin Alignment
MOLD-MASTERS (2007) LIMITED	6230384B1	Method of Making an Injection Molding Cylindrical Manifold Insert
MOLD-MASTERS (2007) LIMITED	6405785B1	Injection Molding Component with Heating Element and Method of Making
MOLD-MASTERS (2007) LIMITED	6135751	Injection Molding Apparatus Having Melt Dividing Bushings
MOLD-MASTERS (2007) LIMITED	7766647B2	Open Loop Pressure Control For Injection Molding
MOLD-MASTERS (2007) LIMITED	6776600B1	Method and Injection Molding Machine for Producing Injection-Molded Articles, Especially Toothbrush Bodies or Toothbrushes
MOLD-MASTERS (2007) LIMITED	7143496B2	Hot Runner Nozzle with Removable Tip and Tip Retainer
MOLD-MASTERS (2007) LIMITED	7686603B2	Hot Runner Actuator
MOLD-MASTERS (2007) LIMITED	RE40584E	Nozzle End for Multiple Tipped Injection Molding Nozzle
MOLD-MASTERS (2007) LIMITED	7029269B2	In-Line Valve Gated Nozzle
MOLD-MASTERS (2007) LIMITED	6203310B1	Injection Molding Apparatus Having Mold Cores With Reverse Taper

Owner	Patent/Application No.	Title
MOLD-MASTERS (2007) LIMITED	7364426B2	Extruded Shape for Distribution of Electrical Wiring, Hydraulic Fluid and Cooling Fluid around a Hot Runner System, Inside an Injection Mold
MOLD-MASTERS (2007) LIMITED	7306454B2	Front-mountable, Edge-gating Nozzle
MOLD-MASTERS (2007) LIMITED	6921257B2	Tip Assembly Having at Least Three Components for Hot Runner Nozzle
MOLD-MASTERS (2007) LIMITED	7125243B2	Removable Heater For A Hot Runner Nozzle
MOLD-MASTERS (2007) LIMITED	6017209	Injection molding cooled gate insert
MOLD-MASTERS (2007) LIMITED	7137806B2	Thermally Balanced Hot Runner Nozzle
MOLD-MASTERS (2007) LIMITED	5980236	Injection molding apparatus having nozzles with elongated mounting flanges
MOLD-MASTERS (2007) LIMITED	6575731B1	Method and Apparatus for Distributing Melt in a Multi-Level Stack Mold
MOLD-MASTERS (2007) LIMITED	7044728B2	Injection Molding Apparatus and Linear Actuator with Position Sensor Therefore
MOLD-MASTERS (2007) LIMITED	8113812B2	VALVE-PIN BUSHING ASSEMBLY FOR AN INJECTION MOLDING APPARATUS
MOLD-MASTERS (2007) LIMITED	7527490B2	Coinjection Molding Apparatus and Related Hot--Runner Nozzle
MOLD-MASTERS (2007) LIMITED	6030202	Injection Molding Three Portion Gate and Cavity Insert
MOLD-MASTERS (2007) LIMITED	6971869B2	Tip Assembly Having at Least Three Components for Hot Runner Nozzle
MOLD-MASTERS (2007) LIMITED	7413432B2	Hot Runner Nozzle with Interlaced Heater and Sensor
MOLD-MASTERS (2007) LIMITED	8414285B2	Multiple-Gate Injection Molding Apparatus
MOLD-MASTERS (2007) LIMITED	RE38265	Injection Molding Apparatus With Cooled Core
MOLD-MASTERS (2007) LIMITED	6755641B1	Stack Injection Molding Apparatus with Separately Actuated Arrays of Valve Gates
MOLD-MASTERS (2007) LIMITED	7044191B2	Mold Material Processing Device, Method & Apparatus for Producing Same
MOLD-MASTERS (2007) LIMITED	6869276B2	Gap Seal Between a Nozzle and a Mold Component in an Injection Molding Apparatus
MOLD-MASTERS (2007) LIMITED	7671304B2	Multi Zone Temperature Controller For Injection Molding System
MOLD-MASTERS (2007) LIMITED	7236841B2	Method for Fast Manufacturing and Assembling of Hot Runner Systems
MOLD-MASTERS (2007) LIMITED	5952016	Side Gated Injection Molding Apparatus With Actuated Manifold
MOLD-MASTERS (2007) LIMITED	6196826B1	Seepage system for an injection molding apparatus
MOLD-MASTERS (2007) LIMITED	7775788B2	Melt Transfer Components for A Stack Molding System
MOLD-MASTERS (2007) LIMITED	7306455B2	Guided Valve Pin For An Injection Molding Apparatus
MOLD-MASTERS (2007) LIMITED	6701997B2	Injection Molding Component with Heating Element and Method of Making

Owner	Patent/Application No.	Title
MOLD-MASTERS (2007) LIMITED	5652003	Injection Molding Nozzle With Radial Vanes
MOLD-MASTERS (2007) LIMITED	6488881B2	Injection molding cooled cavity insert
MOLD-MASTERS (2007) LIMITED	6077067	Injection Molding Cooling Core Having a Ribbed Cap
MOLD-MASTERS (2007) LIMITED	7118704B2	Nozzle and Method for Making a Nozzle with a Removable and Replaceable Heating Device
MOLD-MASTERS (2007) LIMITED	7165965B2	Nozzle Tip and Seal
MOLD-MASTERS (2007) LIMITED	5700499	Valve Member Locating Insert For Injection Molding Nozzle
MOLD-MASTERS (2007) LIMITED	5820899	Injection Molding Nozzle with Edge Gate Inserts and Sealing Ring
MOLD-MASTERS (2007) LIMITED	6074191	Five Layer Injection Molding Apparatus Having Four Position Valve Member Actuating Mechanism
MOLD-MASTERS (2007) LIMITED	7731489B2	Valve For Co-injection Molding Apparatus
MOLD-MASTERS (2007) LIMITED	8568133B2	Melt Channel Geometries For An Injection Molding System
MOLD-MASTERS (2007) LIMITED	8753102B2	CoInjection Hot Runner Injection Molding System
MOLD-MASTERS (2007) LIMITED	8845321	Split Thread Insert
MOLD-MASTERS (2007) LIMITED	7347684B2	Adjustable Valve Pin Actuator For An Injection Molding Apparatus
MOLD-MASTERS (2007) LIMITED	7658605B2	Edge Gated Injection Molding Apparatus
MOLD-MASTERS (2007) LIMITED	7156648B2	Injection nozzle with planar heater
MOLD-MASTERS (2007) LIMITED	7270538B2	Mixing Device
MOLD-MASTERS (2007) LIMITED	7105123B2	Heat Dissipation Device for And Method of Dissipating Heat From a Manifold
MOLD-MASTERS (2007) LIMITED	7182893B2	Valve Gated Nozzle with Pressure Sensor Linked to the Valve Pin
MOLD-MASTERS (2007) LIMITED	6890473B2	Improved Alignment Collar for a Nozzle
MOLD-MASTERS (2007) LIMITED	5695793	Injection Molding Valve Member With Head and Neck Portions
MOLD-MASTERS (2007) LIMITED	RE39935	Multi-Cavity Injection Molding Apparatus Splitting Melt Near Nozzle Front
MOLD-MASTERS (2007) LIMITED	5641526	Injection Molding Nozzle Manifold
MOLD-MASTERS (2007) LIMITED	6099780	Method of Three Layer Injection Molding With Sequential and Simultaneous Coinjection
MOLD-MASTERS (2007) LIMITED	7845936B2	SEALING ARRANGEMENT FOR AN EDGE GATED NOZZLE IN AN INJECTION MOLDING SYSTEM
MOLD-MASTERS (2007) LIMITED	6893249B2	Valve Pin Actuating Mechanism
MOLD-MASTERS (2007) LIMITED	8066506B2	MELT BALANCING ELEMENT IN A MANIFOLD MELT CHANNEL

Owner	Patent/Application No.	Title
MOLD-MASTERS (2007) LIMITED	7364425B2	VALVE-GATED INJECTION MOLDING NOZZLE HAVING AN ANNULAR FLOW
MOLD-MASTERS (2007) LIMITED	6625873B1	Injection Molding Nozzle With Tip Insert
MOLD-MASTERS (2007) LIMITED	6835060B2	Gate Assembly for Reducing Drooling of Melt From a Sprue Bar
MOLD-MASTERS (2007) LIMITED	5942257	Multi-layer injection molding apparatus having adjustable valve member
MOLD-MASTERS (2007) LIMITED	8480391B2	Quick-Change Molding System For Injection Molding
MOLD-MASTERS (2007) LIMITED	7189071B2	Telescopic Manifold Nozzle Seal
MOLD-MASTERS (2007) LIMITED	7407379B2	Injection Molding Nozzle with Rounded Tip
MOLD-MASTERS (2007) LIMITED	6095790	Injection Molding Cylindrical Manifold Insert and Method
MOLD-MASTERS (2007) LIMITED	6840758B2	Valve Bushing Assembly
MOLD-MASTERS (2007) LIMITED	RE40952E	Method and Apparatus for Measuring the Temperature of Molten Material in a Mold Cavity
MOLD-MASTERS (2007) LIMITED	5591465	Side Gated Injection Molding Apparatus With Radially Mounted Gate Inserts
MOLD-MASTERS (2007) LIMITED	6398537B2	Shuttle System for an Apparatus and Method for Injection Molding
MOLD-MASTERS (2007) LIMITED	RE38920	Injection Molding Nozzle Screwed into Mounting Flange
MOLD-MASTERS (2007) LIMITED	7025585B2	Mold Gate Insert with a Thermal Barrier
MOLD-MASTERS (2007) LIMITED	7462314B2	Multiple Materials Injection Molding Method
MOLD-MASTERS (2007) LIMITED	6079972	Injection Molding Cooling Core Having Spiral Grooves
MOLD-MASTERS (2007) LIMITED	7874833B2	Injection Molding Runner Apparatus Having Pressure Seal
MOLD-MASTERS (2007) LIMITED	7255555B2	Micro Molding Manifold (Small Pitch)
MOLD-MASTERS (2007) LIMITED	5644835	Heating Element Method
MOLD-MASTERS (2007) LIMITED	5792493	Connector Bushing for Injection Molding Manifolds
MOLD-MASTERS (2007) LIMITED	7891969B2	Tip Assembly Having at Least Three Components for Hot Runner Nozzle
MOLD-MASTERS (2007) LIMITED	7125242B2	Decompression Device For An Injection Molding Apparatus
MOLD-MASTERS (2007) LIMITED	7470122B2	Method and Apparatus for Removing Melt from a Dead Melt Residue Stagnation Zone Adjoining a Valve Pin In An Injection Molding Apparatus
MOLD-MASTERS (2007) LIMITED	7018197B2	Gap Seal Between Nozzle Components
MOLD-MASTERS (2007) LIMITED	7048532B2	Stroke Limiter for Valve Actuating Mechanism
MOLD-MASTERS (2007) LIMITED	6887418B2	Post Mold Cooling of Preforms

Owner	Patent/Application No.	Title
MOLD-MASTERS (2007) LIMITED	6675055B1	Method and Apparatus for an Automated Injection Molding Configuring & Manufacturing System
MOLD-MASTERS (2007) LIMITED	7381050B1	Snap on Flange
MOLD-MASTERS (2007) LIMITED	8210842B2	Injection Molding Apparatus having Edge-gated Runnerless Nozzle and Related Method of Tip Removal
MOLD-MASTERS (2007) LIMITED	7438551B2	Hot Runner Nozzle with Interlaced Heater and Sensor
MOLD-MASTERS (2007) LIMITED	7172409B2	Injection Molding Valve Pin Bushing
MOLD-MASTERS (2007) LIMITED	7252498B2	Hot Runner Nozzle with Melt Sealing
MOLD-MASTERS (2007) LIMITED	8475158B2	Edge-Gated Nozzle
MOLD-MASTERS (2007) LIMITED	7445444B2	Insert For an Injection Molding Apparatus
MOLD-MASTERS (2007) LIMITED	8353697B2	Injection Molding Apparatus
MOLD-MASTERS (2007) LIMITED	7410354B2	Valve Gated Nozzle with Pressure Sensor Linked to the Valve Pin
MOLD-MASTERS (2007) LIMITED	7160101B2	Method and Apparatus for Heating a Nozzle With Radiant Energy
MOLD-MASTERS (2007) LIMITED	6454558B1	Melt Transfer System (Revised)
MOLD-MASTERS (2007) LIMITED	D525592	Hot-Runner Controller
MOLD-MASTERS (2007) LIMITED	7226283B2	Injection Molding Apparatus With A Melt Channel In Valve Pin
MOLD-MASTERS (2007) LIMITED	5494433	Injection molding hot tip side gate seal with circumferential rim
MOLD-MASTERS (2007) LIMITED	6830447B2	Valve Gate Assembly for Injection Molding
MOLD-MASTERS (2007) LIMITED	7410353B2	Edge Gated Injection Molding Apparatus
MOLD-MASTERS (2007) LIMITED	7824163b2	Injection Molding System Having A Bus
MOLD-MASTERS (2007) LIMITED	5720995	Injection Molding Manifolds with Melt Connector Bushing
MOLD-MASTERS (2007) LIMITED	5599567	Cooled Thread Split Inserts for Injection Molding Preforms
MOLD-MASTERS (2007) LIMITED	4416822	E-MULTI - Trademark test case
OWNER	Application No.	Title
MOLD-MASTERS (2007) LIMITED	14/222,259	CLOSED LOOP CONTROL OF AUXILIARY INJECTION UNIT
MOLD-MASTERS (2007) LIMITED	13/783218	Valve Bushing For an Injection Molding Apparatus
MOLD-MASTERS (2007) LIMITED	61/914870	Drop-In Hot Runner System
MOLD-MASTERS (2007) LIMITED	14/050399	Melt Channel Geometries For An Injection Molding System
MOLD-MASTERS (2007) LIMITED	13/789201	Edge-Gated Injection Molding Apparatus

Owner	Patent/Application No.	Title
MOLD-MASTERS (2007) LIMITED	61/986660	Hot Runner System Sealing Arrangement
MOLD-MASTERS (2007) LIMITED	13/036051	CAVITY INSERT FILM FLOW COOLING
MOLD-MASTERS (2007) LIMITED	61/945038	Piston For A Hot Runner Valve Gate Actuator
MOLD-MASTERS (2007) LIMITED	13/803859	Edge-Gated Injection Molding Apparatus
MOLD-MASTERS (2007) LIMITED	13/238074	COINJECTION HOT RUNNER INJECTION MOLDING SYSTEM
MOLD-MASTERS (2007) LIMITED	13/721265	STACK MOLD TRANSFER DEVICE
MOLD-MASTERS (2007) LIMITED	61/920807	Extruder Feed Path Vibrator
MOLD-MASTERS (2007) LIMITED	13/880,407	CoInjection Hot Runner Injection Molding System

TRADEMARKS:

Owner	Trademark	Registration/Application No.
MOLD-MASTERS (2007) LIMITED	MERLIN	2802817
MOLD-MASTERS (2007) LIMITED	MOLD-MASTERS ACADEMY	1918627
MOLD-MASTERS (2007) LIMITED	MASTER-SHOT	1186387
MOLD-MASTERS (2007) LIMITED	DURA CENTI-SHOT	1933748
MOLD-MASTERS (2007) LIMITED	SCAN-MASTER	1447183
MOLD-MASTERS (2007) LIMITED	DURA HECTO-SHOT	1984430
MOLD-MASTERS (2007) LIMITED	DURA	2042134
MOLD-MASTERS (2007) LIMITED	HOT EDGE	1142933
MOLD-MASTERS (2007) LIMITED	DURA DECI-SHOT	1932033
MOLD-MASTERS (2007) LIMITED	DURA FEMTO-SHOT	2177077
MOLD-MASTERS (2007) LIMITED	DURA MEGA-SHOT	2019486
MOLD-MASTERS (2007) LIMITED	DURA PICO-SHOT	1932032
MOLD-MASTERS (2007) LIMITED	MASTER-PROBE	1282175
MOLD-MASTERS (2007) LIMITED	MERLIN	2389509
MOLD-MASTERS (2007) LIMITED	MOLD-MASTERS	1020951

Owner	Trademark	Registration/Application No.
MOLD-MASTERS (2007) LIMITED	MOLD-MASTERS SYSTEM	1072894
MOLD-MASTERS (2007) LIMITED	MASTER-SERIES	2940466
MOLD-MASTERS (2007) LIMITED	Nozzle Design 1	2911838
MOLD-MASTERS (2007) LIMITED	Nozzle Design 2	2911837
MOLD-MASTERS (2007) LIMITED	Nozzle Design 3	2911836
MOLD-MASTERS (2007) LIMITED	MasterCARE	3243510
MOLD-MASTERS (2007) LIMITED	MASTERSOLUTION	3044626
MOLD-MASTERS (2007) LIMITED	MASTERSPEED	3044627
MOLD-MASTERS (2007) LIMITED	ACCU-VALVE	3374206
MOLD-MASTERS (2007) LIMITED	MELT-DISK	3357782
MOLD-MASTERS (2007) LIMITED	FUSION SERIES	3442833
MOLD-MASTERS (2007) LIMITED	MELT-LINK	4019742
MOLD-MASTERS (2007) LIMITED	FEMTO-LITE	3944700
MOLD-MASTERS (2007) LIMITED	MPET	4081127
MOLD-MASTERS (2007) LIMITED	SPRINT	4005759
MOLD-MASTERS (2007) LIMITED	MASTERPET	4261800
MOLD-MASTERS (2007) LIMITED	IFLOW	4589056
MOLD-MASTERS (2007) LIMITED	E-MULTI	4416822