

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	UMETRICS AB	03/22/2017
RECEIVING PARTY DATA		
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	Property Type	Number
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DATE SIGNED:	03/22/2017	
Total Attachments: 1		
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ASSIGNMENT

Patent Assignment

This Patent Assignment (the "Assignment") is made as of March 22, 2017 by and between Umetrics AB ("Umetrics AB"), a company organized under the laws of Sweden, and MKS Instruments, Inc. a Massachusetts corporation, with principal offices at 2 Tech Drive, Andover, Massachusetts 01810 ("Assignee")

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Umetrics AB hereby sells, assigns, transfers, delivers, conveys and sets over to Assignee all of its right, title and interest in and to:

US Patent No. 7,465,417	"Parametric Injection Molding System and Method"
EP Patent No. 1773565	"Parametric Injection Molding System and Method"
CN Patent No. CN1005542779C	"Parametric Injection Molding System and Method"
JP Patent No. JP05140420B2	"Parametric Injection Molding System and Method"
KR Patent No. KR1227359B1	"Parametric Injection Molding System and Method"

(the "Patents"), in and throughout the United States of America, its territories and all foreign countries, in and to the invention(s) described in said Patents, together with our entire right, title and interest in and to such letters patents as may issue thereon or claim priority under United States law or international convention, including but not limited to non-provisionals, continuations, divisionals, reissues, reexaminations, extensions, and substitutions of said Patents to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Patents may be granted as fully and entirely as the same would have been held by me had this assignment and sale not been made.

The undersigned warrants and covenants that they have the right to sell and assign its interests herein.

The undersigned further covenants and agrees they will communicate to Assignee, its successors, legal representatives or assigns all information known to them relating to said patent(s) and that they will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts deemed necessary or desirable by said Assignee, its successors, legal representatives or assigns to perfect title to said patent(s).

In witness whereof:

Signature of Umetrics AB: *Seth A. Bagshaw*

Date: March 22, 2017

Name: Seth Bagshaw
Title: Director