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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JEAN-JACQUES OSTIGUY	01/27/2017
SIMON GARNEAU	01/27/2017
BERNARD ANTAKI	01/27/2017
ALAIN CHAMPENOIS	01/27/2017
MATHIEU GIRARD	01/27/2017
NICOLAS JEAN	01/27/2017

RECEIVING PARTY DATA

Name:	MATROX GRAPHICS INC.
Street Address:	1055 ST-REGIS BOULEVARD
City:	DORVAL QUEBEC
State/Country:	CANADA
Postal Code:	H9P 2T4

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15412808

CORRESPONDENCE DATA

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Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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NICHOLSON DE VOS WEBSTER & ELLIOTT LLP **Correspondent Name:**

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ATTORNEY DOCKET NUMBER:	1005P001X
NAME OF SUBMITTER:	MERIEM DEBBIH
SIGNATURE:	/Meriem Debbih/
DATE SIGNED:	01/27/2017

Total Attachments: 7

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This Assignment is made by the undersigned (hereinafter referred to as "Assignor(s)") in favor and for the benefit of, Matrox Graphics Inc., a corporation of Canada, having its principal place of business at 1055 St-Regis Boulevard, Dorval Quebec, H9P 2T4 Canada (hereinafter referred to as "Assignee").

For good, sufficient and adequate consideration, the receipt of which is hereby acknowledged, the Assignor(s) hereby sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to any and all inventions and improvements that are disclosed in the following application(s) (provisional or non-provisional) and in and to said application(s) (provisional or non-provisional) in all countries and pursuant to all multilateral treaty organizations including the United States of America, the Patent Cooperation Treaty and European Patent Convention, that may be granted therefor and thereon, and in and to any and all divisional applications, continuation applications, conversions, national phase applications, reissue applications, substitute applications, renewal applications, design applications, utility models of said application(s), and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions or improvements:

MOTION-BASED ADAPTIVE QUANTIZATION

including, but not limited to, the following application(s):

Country	Application No.	Filing Date
US	15/412,808	January 23, 2017

Assignor(s) hereby authorize and request Assignee's Attorneys to insert the serial number and filing date of said application(s) when known.

The assignment of the above mentioned rights includes a transfer of the whole right to use a priority (including priority according to any convention, multilateral agreement, bilateral agreement and national law) of the above mentioned application(s) in all countries and multilateral treaty organizations wherein no residual rights shall remain with the Assignor(s). Assignee alone hereinafter has the entire disposal of the inventions and possesses entire ownership to any patents (domestic and/or foreign, including utility models) granted thereinafter. The rights granted hereunder shall include all rights to institute legal actions, obtain remedies and recover and retain damages in respect to said patents.

The Assignor(s) hereby agree that said Assignee may apply for and receive patent(s) (domestic and/or foreign, including utility models) for said inventions or improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, Assignor(s) shall sign all papers and documents, take all lawful oaths, and do all

acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of said patent(s) for said inventions and improvements.

Each of the Assignor(s) hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the Assignor(s), and that full right to convey the same as herein expressed is possessed by the Assignor(s).

Each Inventor - Please sign and date below:

Date	Signature of Assignor	Jean Jacques Vsheny
Date	Witnessed by Name:	
	Address:	

Date17-1-27	Signature of Assigner	
Date	Witnessed by	Simon Garneau
	Name:	432 928 432 928
	Address:	A STATE OF THE STA
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Attorney Docket No. 1005P001X

ASSIGNMENT

Date 2017-01-27	Signature of Assignor	
	5	Bernard Antaki
Date 1 2 7	Witnessed by	
	Name:	T. Proceding
÷	Address:	

Attorney Docket No. 1005P001X

ASSIGNMENT

Date 27/91/2017	Signature of Assignor	Maria Maria
		Alain Champenois
Date 17 - S - 27	Witnessed by	
	Name:	To another the second
	Address:	

Attorney Docket No. 1005P001X

	<u>ASSIGNMENT</u>	
Date <u>1017-01-27</u>	Signature of Assignor	Mathieu Girardo
Date	Witnessed by	
	Name:	
	Address:	The second secon
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

Date 2017-01-27	Signature of Assignor	Mun Jan
	•	Nicolas Jean
Date	Witnessed by	
	Name:	······································
	Address:	

PATENT REEL: 041107 FRAME: 0970

RECORDED: 01/27/2017