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PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
Mark Hummel	06/22/2012
David E. Mayhew	06/21/2012
Michael J. Osborn	06/22/2012
Anton Chernoff	08/15/2012
Venkata S. Krishnan	06/27/2012

RECEIVING PARTY DATA

Name:	Advanced Micro Devices, Inc.
Street Address:	1 AMD Place
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State/Country:	CALIFORNIA
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13531890

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ATTORNEY DOCKET NUMBER:	110253 (AMD-018)	
NAME OF SUBMITTER:	Timothy P. Collins	PATENT

502027373 REEL: 028798 FRAME: 0386

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Total Attachments: 6 source=110253_AMD-018_ExecutedAssignment#page1.tif source=110253_AMD-018_ExecutedAssignment#page2.tif source=110253_AMD-018_ExecutedAssignment#page3.tif source=110253_AMD-018_ExecutedAssignment#page4.tif source=110253_AMD-018_ExecutedAssignment#page5.tif source=110253_AMD-018_ExecutedAssignment#page6.tif

PATENT REEL: 028798 FRAME: 0387

ASSIGNMENT OF U.S. PATENT APPLICATION

This is an assignment of patent rights between inventor Mark Hummel, David E. Mayhew, Michael J. Osborn, Anton Chernoff, and Venkata S. Krishnan (hereinafter referred to as "Inventor") and Advanced Micro Devices, Inc., having a place of business at One AMD Place, Sunnyvale, California, 94085 (hereinafter referred to as "Assignee").

WHEREAS, Inventor has caused to be prepared a United States Patent Application in the			
Inventor's name entitled SYSTEMS AND METHODS FOR INPUT/OUTPUT			
VIRTUALIZATION, t	ne specification of which was filed on	, as United States	
Application Number	, having a docket number of 110253	(AMD-018) (hereinafter	
	referred to as the "Invention"); and		

WHEREAS, Assignee has a desire to acquire all rights, title, and interest in the Invention.

NOW, THEREFORE, the parties agree as follows:

- 1. Inventor hereby sells, assigns, and transfers his entire right, title, and interest in the Invention and all patents that may be granted therefrom due to divisions, reissue, substitutions, extensions, continuations, and continuations-in-part to the Assignee.
- 2. Inventor hereby sells, assigns, and transfers his entire right, title, and interest in any foreign (non-U.S.) national patent application, invention registration, or equivalent (Foreign Applications) claiming approximately the same subject matter of the Invention to the Assignee.
- 3. The transfer set forth in Paragraph (2) is in consideration for the sum of one U.S. dollar (US\$1) (or its equivalent) and/or other consideration for which both parties acknowledge to be valuable, having been conveyed to the Inventors by the Assignee. Consideration may include at least one of the following: employment, an independent contractor agreement, monetary payment, or other benefit hereby acknowledged as received.
- 4. Inventor hereby authorizes and requests the Commissioner of Patents and Trademarks to issue the patent for the Invention, and all resulting patents therefrom, insofar as Inventor's interest is concerned, to the Assignee.
- 5. Inventor further agrees to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title, and interest in the Assignee.
- 6. Inventor hereby yet further agrees to, with respect to the referenced patent application, at the expense of the Assignee:
 - i) testify in any legal proceedings,
 - ii) sign all lawful papers,

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- iii) execute all divisional, continuation, continuation-in-part, reissue and substitute applications,
- iv) make all lawful oaths, and assist in vesting title in the Assignce and to aid the Assignce to obtain and enforce proper protection for the subject matter of the Invention in all countries, and
- v) notify Assignee promptly (by facsimile or first class mail) of any subpoena or contact by any person other than Assignee or its agents regarding the Invention or resultant patent(s) issuing therefrom, and in any event at least one week prior to any deposition, legal inquiry or legal proceeding relating to the above identified invention.

This assignment is executed on the date(s) of which the Inventor has signed.

First Inventor: Mark Hummel	Date: <u>6/2</u> 2/	<u>2012</u>
State/Province of:)	
Regional Municipality of:)	
Before me personally appeared said instrument to be his free act and deed this	d <u>Mark Hummel</u> and acknowledge <u> </u>	the foregoing 2012.
Season and the season	Newle L Harris (Notary)	
NICOLE E MARRIS Network Profile Communication of Anti-achusetts and any European	NICOLE L. HARRIS Notary Public Commonwealth of Massachusetts My Commission Expires April 4, 2019	
Witness # 1(Signature)	Witness#2	(Signature)
(Print Name	e)	(Print Name)
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Third Inventor:			
	Ez	Date:	6/22/2012
State/Province of:		_)	
Regional Municipality o	f:	_)	
instrument to be his free	•	l J. Osborn and aday of	Ture 2012.
Common	COLE L. HARRIS Notary Public wealth of Massachusetts Commission Expires April 4, 2019		
Witness # 1	(Signature)	Witness#2	(Signature)
	(Print Name)		(Print Name)

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Second Inventor: David E. Mayhew	Date: 21 J-10 2012
State/Province of:)	SS:
Regional Municipality of:)	
Before me personally appeared said <u>David E. M.</u> instrument to be his free act and deed this	ayhew and acknowledge the foregoing day of 2012.
Seal	
	(Notary)
OR	
Witness # 10000 Signature) KOLY MONTHARPrint Name)	Witness#2 Milliam G. Gue (Print Name)

Fourth Inventor: Anton Chernoff		Date: 15 Aug 2012
State/Province of:	Massachusets)	SS
Regional Municipality of:	Million Conty	
		rnoff and acknowledge the foregoing day of <u>Aట్రుక</u> 2012.
Seal	N.	
	<u> Aurle</u>	<u>X Hunniy</u> (Notary)
OR		
Note Commenweal My Com	E L. HARRIS vry Public th of Massachusens nission Expires il 4, 2019	portini in the second s
Witness # 1 <u> </u>		Witness#24_1C(Signature)
MARKHER	CPrint Name)	GAGIC GOSPOLS (Print Name)

Fifth Inventor: Verificata S. Krishnan			Date: <u>Tu</u>	<u>ve 27, 20</u> 12_
State/Province of:	MA)	SS:	
Regional Municipality of:	Asmon			
Before me personally instrument to be his free act an	appeared said <u>Ver</u> nd deed this	ıkata S. Kr 27	<u>ishnan</u> and a day of	cknowledge the foregoing JUNE 2012.
Seal				
	·			(Notary)
OR				
Witness # 1 <u>41</u>	(Signature)		Witness#2	ANUT PHAIKE(Print Name)