

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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EPAS ID: PAT4856660

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the ASSIGNEE NAME previously recorded on Reel 042158 Frame 0910. Assignor(s) hereby confirms the CORRECT ASSIGNEE IS "BEIJING DEEPHI INTELLIGENT TECHNOLOGY CO., LTD.".	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	YI SHAN	12/26/2016
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	BEIJING DEEPHI INTELLIGENT TECHNOLOGY CO., LTD.	
<b>Street Address:</b>	1706 BUILDING D-EAST	
<b>Internal Address:</b>	TSINGHUA TONGFANG HIGH-TECH PLAZA	
<b>City:</b>	BEIJING	
<b>State/Country:</b>	CHINA	
<b>Postal Code:</b>	1000084	
<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	Application Number:	15390744
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>		
<i>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.</i>		
<b>Email:</b>	contact@us-ip.com	
<b>Correspondent Name:</b>	IPRO, PLLC	
<b>Address Line 1:</b>	21800 TOWN CENTER PLAZA, #266A-816	
<b>Address Line 4:</b>	STERLING, VIRGINIA 20164	
<b>ATTORNEY DOCKET NUMBER:</b>	3610-0009	
<b>NAME OF SUBMITTER:</b>	QIAN GU	
<b>SIGNATURE:</b>	/Qian Gu/	
<b>DATE SIGNED:</b>	03/08/2018	
<b>Total Attachments: 4</b>		
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## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
YI SHAN	12/26/2016
RECEIVING PARTY DATA	
Name:	BEIJING DEEPHI INTELLIGENCE TECHNOLOGY CO., LTD.
Street Address:	1706 BUILDING D-EAST, TSINGHUA TONGFANG HIGH-TECH PLAZA
City:	BEIJING
State/Country:	CHINA
Postal Code:	100084
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15390744
CORRESPONDENCE DATA	
Fax Number:	
Phone:	888 886 8168
Email:	patent@junhe.com
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.	
Correspondent Name:	JUN HE LAW OFFICES P.C.
Address Line 1:	2100 GENG ROAD
Address Line 2:	SUITE 102
Address Line 4:	PALO ALTO, CALIFORNIA 94303
ATTORNEY DOCKET NUMBER:	066391-8011US01
NAME OF SUBMITTER:	JAMES J. ZHU
Signature:	/James J. Zhu, Reg. No. 52,396/
Date:	04/27/2017
This document serves as an Oath/Declaration (37 CFR 1.63).	

**PATENT**  
**REEL: 045529 FRAME: 0396**

Total Attachments: 2

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RECEIPT INFORMATION

EPAS ID: PAT4386820

Receipt Date: 04/27/2017

**ASSIGNMENT AND DECLARATION**  
**FOR UTILITY OR DESIGN PATENT APPLICATION**

**ASSIGNMENT**

WHEREAS I/We, the below named inventor(s), (hereinafter referred to as "Assignor(s)"), have invented one or more certain inventions (the "Invention(s)") described in a United States Patent Application entitled HARDWARE ACCELERATOR FOR COMPRESSED GRU ON FPGA (the "Application") and

February 9, 2018: ☐ executed concurrently herewith; or

Y.S.

☒ filed on December 27, 2016 with the Application No. 15/390,744.

BEIJING DEEPHI INTELLIGENT TECHNOLOGY Co., Ltd.

BEIJING DEEPHI INTELLIGENCE TECHNOLOGY CO., LTD., a legal entity existing

under the laws of People's Republic of China, having an address at 1706 Building D-East, Tsinghua Tongfang High-Tech Plaza, Beijing 100084, China (the "Assignee"), desires to acquire the entire right, title and interest in and to the Invention(s) and the Application, and in and to any patents (collectively, "Patents") that may be granted for the Invention(s) in the United States or in any foreign countries or regions in the world.

For valuable consideration, the receipt and sufficiency of which Assignors acknowledge, Assignors hereby sell, assign, and transfer to Assignee, its successors, legal representatives and assigns, any and all of our right, title and interest in and to: the Invention(s), the Application, and any Patents; any divisions, continuations, and continuations-in-part of the Application, any other application claiming the same priority rights as the Application or claiming priority rights from the Application; any reissues, reexaminations, or extensions of any and all Patents; the right to file foreign applications directly in the name of Assignee; and the right to claim priority rights deriving from the Application (collectively, the "Rights"), whether now existing or hereafter arising. Assignors warrant that he is the sole inventor of the Rights, and that the Rights are unencumbered. Assignors also agree to not sign any writing or do any act conflicting with this assignment, and, without further compensation, sign all documents and do such additional acts as Assignee deems necessary or desirable to: perfect Assignee's enjoyment of the Rights.

prepare and prosecute the Application or any other applications for Patents; conduct proceedings regarding the Rights, including any litigation or interference proceedings; or perfect or defend title to the Rights. Assignors request the Commissioner of Patents to issue any Patent of the United States that may be issued on the Invention(s) to Assignee.

**DECLARATION OF INVENTOR(S)**

As a named inventor below, I hereby declare that: (1) This declaration is directed to the above-identified application; (2) the above-identified application was made or authorized to be made by me; (3) I believe that I am an original inventor or an original joint inventor of a claimed invention in the application. I hereby acknowledge that any willful false statements made in this declaration are punishable under 18 U. S. C. 1001 by fine or imprisonment of not more than five (5) years, or both.

As a named inventor below, I have reviewed and understand the contents of the application, including the claims, and am aware of the duty to disclose to the USPTO all information known to me to be material to patentability as defined in 37C.F.R. §1.56.

Assignor 1:

Yi SHAN  
Signature

26/12/2016  
Date

YI SHAN  
Print Name

1706 Building D-East, Tsinghua Tongfang High-Tech Plaza, Beijing 100084, China  
Address