

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4514072

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Praduman Jain	07/19/2017
Dave Klein	07/19/2017
Yue Cao	07/19/2017
Neeta Jain	07/19/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	VIGNET INCORPORATED
<b>Street Address:</b>	12015 LEE JACKSON MEMORIAL HIGHWAY
<b>Internal Address:</b>	SUITE 130
<b>City:</b>	FAIRFAX
<b>State/Country:</b>	VIRGINIA
<b>Postal Code:</b>	22033
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15152411
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(877)769-7945
<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>Phone:</b>	(202) 638-6554
<b>Email:</b>	apsi@fr.com
<b>Correspondent Name:</b>	RYAN CHOWDHURY
<b>Address Line 1:</b>	FISH & RICHARDSON P.C.
<b>Address Line 2:</b>	P.O.BOX 1022
<b>Address Line 4:</b>	MINNEAPOLIS, MINNESOTA 55440-1022
<b>ATTORNEY DOCKET NUMBER:</b>	41381-0005001
<b>NAME OF SUBMITTER:</b>	ARLENE F. YATES
<b>SIGNATURE:</b>	/Arlene F. Yates/
<b>DATE SIGNED:</b>	07/21/2017
<b>Total Attachments: 2</b>	

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ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, PRADUMAN JAIN, DAVE KLEIN, YUE CAO, and NEETA JAIN, each individually assign to VIGNET INCORPORATED, a corporation formed under the laws of Virginia and having a principal place of business at 12015 Lee Jackson Memorial Highway, Suite 130, Fairfax, VA 22033, and its successors, transferees, and assignees (collectively the "Assignee"), all of our individual and joint right, title, and interest throughout the world in the subject matter (the "Subject Matter") of a patent application that names us as inventors, is titled "MULTI-LEVEL ARCHITECTURE FOR DYNAMICALLY GENERATING INTERACTIVE PROGRAM MODULES," and was filed in the United States Patent and Trademark Office on May 11, 2016, as application 15/152,411 (the "Application").

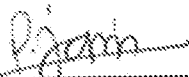
This Assignment assigns (a) the Application and all other applications that may be made for, and all patents, utility models, design registrations, and other rights of exclusion and inventors' certificates for, any of the Subject Matter (collectively the "Applications and Granted Rights") in every country or region, (b) the right to claim priority based on and the benefit of the filing date of any of the Applications and Granted Rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other applicable treaties or conventions, and (c) the right to pursue, collect, and retain in the Assignee's name or otherwise, damages and any other remedies arising from any past, present, or future infringement of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment.

We authorize the Assignee to apply for and pursue protection for any or all of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment in all countries, regions, and territories of the world, in our names or in the Assignee's name.

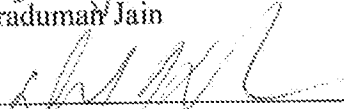
We represent and warrant that we have the right and power to make this Assignment and that we have not made and will not make any other assignment that conflicts with this Assignment.

We will communicate to the Assignee (or at the request of the Assignee to other parties) all known facts in any form relating to the Subject Matter, will execute and provide all oaths and declarations, statements, testimony, assignments, powers of attorney, applications, and


documents, and will perform all other lawful acts necessary or desirable to secure fully to the Assignee the rights, titles, and interests assigned by this Assignment.

  
\_\_\_\_\_  
Praduman Jain

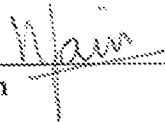
Date: 7/19/17

  
\_\_\_\_\_  
Dave Klein

Date: 7/19/17

  
\_\_\_\_\_  
Xue Cao

Date: 7/19/17

  
\_\_\_\_\_  
Necta Jain

Date: 7/19/2017

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