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Patent Trial and Appeal Board
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**PETITIONER'S POWER OF ATTORNEY IN A POST GRANT PROCEEDINGS
BEFORE THE PATENT TRIAL AND APPEAL BOARD**

Petitioner, Google Inc., hereby appoints the following practitioners as its attorneys to transact all business in the United States Patent & Trademark Office associated with any *inter partes* review, covered business method review, post grant review, or other review proceedings before the Patent Trial and Appeal Board of the above-captioned patent:

Karl Renner, Reg. No. 41,265

Adam Shartzer, Reg. No. 57,246

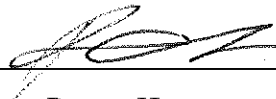
Matthew Mosteller, Reg. No. 71,717

Vivian Lu, Reg. No. 74,443

and all practitioners associated with PTO Customer Number 26191.

I have the authority to execute this document on behalf of Google Inc.

Google Inc.

By:  _____
Name: Renny Hwang
Title: Director, Litigation
Date: June 30, 2017