

Case IPR2015-00060  
Patent No. 7,421,032

**UNITED STATES PATENT AND TRADEMARK OFFICE**

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**BEFORE THE PATENT TRIAL AND APPEAL BOARD**

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HUGHES NETWORK SYSTEMS, LLC and  
HUGHES COMMUNICATIONS, INC.  
Petitioners

v.

CALIFORNIA INSTITUTE OF TECHNOLOGY  
Patent Owner

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Patent 7,421,032

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**POWER OF ATTORNEY PURSUANT TO 37 C.F.R. §42.10(b)**

**Patent Owner Power of Attorney**

Pursuant to 37 C.F.R. § 42.10(b), Patent Owner, California Institute of Technology, hereby appoints the following attorneys to transact all business in the United States Patent & Trademark Office associated with this *Inter Partes* review of U.S. Patent No. 7,421,032:

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The undersigned is authorized to act on behalf of California Institute of Technology.

BY: JENNIFER T. LUM

TITLE: Deputy General Counsel

DATE: Nov. 4, 2014

SIGNATURE: Jennifer T. Lum