

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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VOLKSWAGEN GROUP OF AMERICA, INC.  
Petitioner,

v.

JOAO CONTROL & MONITORING SYSTEMS, LLC  
Patent Owner

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Cases:

IPR2015-01610 (Pat. 6,542,076)  
IPR2015-01611 (Pat. 6,549,130)  
IPR2015-01612 (Pat. 7,397,363)  
IPR2015-01613 (Pat. 5,917,405)

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**POWER OF ATTORNEY FOR PATENT OWNER**

I hereby appoint the following lead and backup counsel to represent Patent Owner in the above captioned *Inter Partes* Reviews (IPRs) and transact all business in the U.S. Patent and Trademark Office connected therewith:

**Lead Counsel**

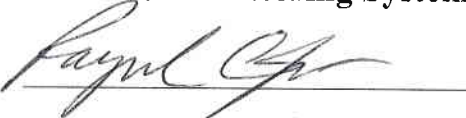
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The undersigned is authorized to sign this Power of Attorney on behalf of Patent Owner.

**Joao Control & Monitoring Systems, LLC**

By: 

Dated: 8/12/15

Printed Name: Raymond A. Joao

Title: President and CEO