

**AFFIDAVIT OF RYAN A. HARGRAVE IN SUPPORT OF MOTION FOR
PRO HAC VICE ADMISSION**

I, Ryan A. Hargrave, being duly sworn and upon oath, hereby attest to the following:

1. I am a member in good standing of the Bar of Texas as well as the U.S. Court of Appeals for the Federal Circuit, and the U.S. District Courts for the Eastern, Northern, and Southern Districts of Texas;
2. I have not been suspended or disbarred from practice before any court or administrative body;
3. I have never had an application for admission to practice before any court or administrative body denied;
4. I have never had sanctions or contempt citations imposed against me by any court or administrative body;
5. I have read and will comply with the Office Patent Trial Practice Guide and the Board's Rules of Practice for Trials set forth in part 42 of 37 C.F.R.;
6. I will be subject to the USPTO Rules of Professional Conduct set forth in 37 C.F.R. §§ 11.101 *et. seq.* and disciplinary jurisdiction under 37 C.F.R. § 11.19(a);
7. I am applying to appear *pro hac vice* to the present proceeding, number IPR2018-01055, and have applied to appear *pro hac vice* on behalf of

Patent Owner in IPR2018-01054. I have not applied to appear *pro hac vice* in any other proceedings in the last three (3) years; and

8. As an experienced litigation attorney before both state and federal courts, I am familiar with the subject matter at issue in the proceeding, including the prior art on which Petitioners rely and U.S. Patent No. 9,370,631. I have also reviewed the pertinent issues of claim construction that have been briefed in this proceeding.

DATED: May 31, 2018,

/Ryan A. Hargrave/

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