

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**  
**BEFORE THE PATENT TRIAL AND APPEAL BOARD**

**PATENT NO.:** 7,381,657

**ISSUE DATE:** JUNE 3, 2008

**TITLE:** BIASED PULSE DC REACTIVE SPUTTERING OF OXIDE FILMS

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**FEE AUTHORIZATION**

The undersigned authorizes the Office to charge \$42,625, which includes, if any, additional claims fees, to Deposit Account No. 08-0219 for the fees set forth in 37 C.F.R. § 42.15(a) for this Petition for *Inter Partes* Review (IPR2021-01031). The undersigned further authorizes payment for any additional fees that might be due in connection with this Petition including any *Pro Hac Vice* fees under 37 C.F.R. § 42.15(e) to be charged to the above-referenced Deposit Account.

/David L. Cavanaugh/  
David L. Cavanaugh  
Registration No. 36,476