

# EXHIBIT 2004

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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LG ELECTRONICS, INC., LG ELECTRONICS U.S.A., INC., AND LG  
ELECTRONICS MOBILECOMM U.S.A, INC.

Petitioners

v.

CYPRESS SEMICONDUCTOR CORP.

Patent Owner

LG ELECTRONICS, INC.'S PETITION

To Institute an *Inter Partes* Review of U.S. Patent No. 8,519,973

*under*

*37 C.F.R. § 42.100 et seq.*

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### Cases

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