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UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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UNIFIED PATENTS, LLC  
Petitioner

v.

INTERDIGITAL VC HOLDINGS, INC.  
Patent Owner

IPR2021-00102  
U.S. Patent 8,363,724

**PETITION FOR *INTER PARTES* REVIEW OF  
U.S. PATENT NO. 8,363,724  
CHALLENGING CLAIMS 1–4, 7–12, 15, 19–23, 26–31, 34, 38–42, 45–50, 53,  
56–60, 63–68, 71, AND 74 UNDER 35 U.S.C. § 312 AND 37 C.F.R. § 42.104**

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Unified Patents, LLC (“Unified” or “Petitioner”) respectfully requests *inter partes* review (“IPR”) of claims 1–4, 7–12, 15, 19–23, 26–31, 34, 38–42, 45–50, 53, 56–60, 63–68, 71, and 74 of U.S. Patent 8,363,724 (the “’724 patent”) (EX1001) pursuant to 35 U.S.C. §§311–319 and 37 C.F.R. §42.1 *et seq.*

## **I. INTRODUCTION**

The ’724 patent is directed to techniques of using virtual reference pictures in video encoding and decoding. The allegedly inventive concepts described in the ’724 patent, including the use of a decoded picture buffer to store both virtual reference pictures and non-virtual reference pictures, were well-known in the prior art, as detailed in the grounds below.

## **II. MANDATORY NOTICES**

### **A. Real Party-in-Interest**

Pursuant to 37 C.F.R. §42.8(b)(1), Petitioner certifies that Unified Patents, LLC is the sole real party-in-interest, and further certifies that no other party exercised control or could have exercised control over Unified’s participation in this proceeding, the filing of this petition, or the conduct of any ensuing trial. In view of *Worlds Inc. v. Bungie, Inc.*, 903 F.3d 1237, 1242–44 (Fed. Cir. 2018), Unified has submitted the Declaration of Kevin Jakel (EX1002) in support of its certification.

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