UNITED STATES PATENT AND TRADEMARK OFFICE
BEFORE THE PATENT TRIAL AND APPEAL BOARD
UNIFIED PATENTS, LLC Petitioner
v.
ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUT
KWANGWOON UNIVERSITY RESEARCH INSTITUTE FOR INDUSTRY COOPERATION, INDUSTRY-ACADEMIA COOPERATION GROUP OF
SEJONG UNIVERSITY,
Patent Owners

IPR2021-00368 Patent No. 9,736,484

PATENT OWNER'S PRELIMINARY RESPONSE PURSUANT TO 37 C.F.R. §42.107(a)



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A. "horizontal intra prediction mode" / "vertical intr	ra prediction mode"4
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A. Grounds 1 and 2: Prior Art Fails to Disclose Clair Horizontal Intra Prediction Modes	
1. <i>Nishi's</i> AC Prediction in the vertical direction is no prediction mode	
2. <i>Nishi's</i> AC Prediction in the horizontal direction is prediction mode	
B. Grounds 3 and 4: Prior Art Fails to Render Obvious Horizontal or Vertical Intra Scanning Mode in Responsional Intra Prediction Mode	onse to a Vertical or
Petition Confirms that Adaptive Scanning According Inter Prediction	•
(1a) None of the applied references disclose selecting based on directional intra prediction modes	
(1b) Inter prediction is critical to Do's invention an patterns	
(1c) Petitioner provides no evidence that Do's inverwith intra prediction	-
(1d) Petitioner's evidence indicates that Do's inven applicable to intra prediction	
2. Petitioner Fails to Establish <i>Prima Facie</i> Case of C Modifying <i>Do</i> in View of <i>Kobayashi</i> or <i>Kalevo</i>	
(2a) Petitioner does not properly set forth difference Claim and prior art	· ·



,	(2b) Petitioner does not provide "a finding that the substituted component and their functions were known in the art"	
	(2c) Petitioner does not establish that a POSITA could have substituted intra prediction modes for contour features to select a scanning pattern	36
,	(2d) Petition does not establish that claimed invention would have been a predictable result from the proposed substitution	44
	HE PETITION SHOULD BE DISMISSED FOR FAILING TO NAME REAL PARTIES IN INTEREST	
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