#### UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

Google Inc. Petitioner, v. Network-1 Technologies, Inc. Patent Owner.

> Case IPR2015-00345 U.S. Patent 8,205,237

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Google Inc. Petitioner, v. Network-1 Technologies, Inc. Patent Owner.

> Case IPR2015-00343 U.S. Patent 8,640,179

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Google Inc. Petitioner, v. Network-1 Technologies, Inc. Patent Owner.

> Case IPR2015-00347 U.S. Patent 8,010,988

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Google Inc. Petitioner, v. Network-1 Technologies, Inc.

Patent Owner.

Case IPR2015-00348 U.S. Patent 8,656,441

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# <u>lwamura</u>

- '237 Ground 1
- '237 Ground 3
- '988 Ground 3

# <u>Ghias</u>

- '237 Ground 2
- '988 Ground 1
- '988 Ground 2
- '179 Ground 2
- '441 Ground 2

# <u>Conwell</u>

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- '179 Ground 1
- '441 Ground 1

# Iwamura

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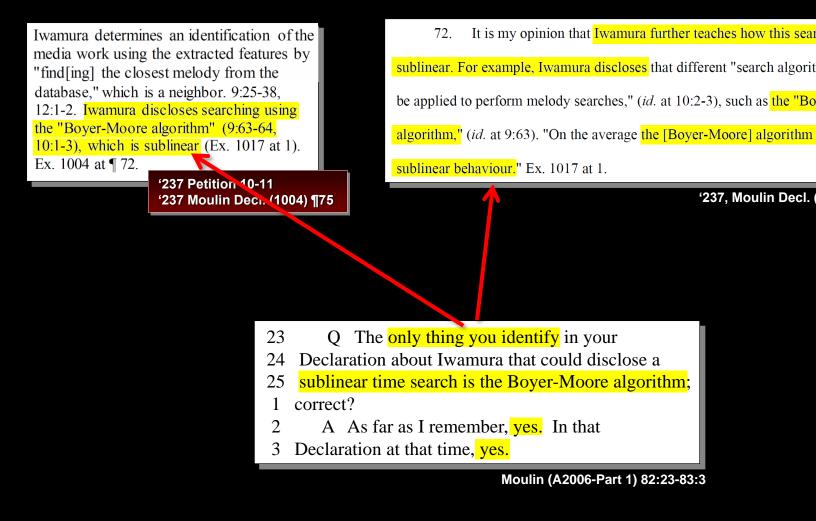
	Independent claim	Key missing elements	
ʻ237	1	sub-linear time search identify a neighbor	
	5	sub-linear time search identify a neighbor	
	9	approximate nearest neighbor	
	13	approximate nearest neighbor	
	25	identify a neighbor non-exhaustive search	
	33	sublinear approximate nearest neighbor	
<b>'988</b>	15	non-exhaustive search identifying a neighbor	

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# lwamura

	Independent claim	Key missing elements
	1	sub-linear time search identify a neighbor
	5	sub-linear time search identify a neighbor
	9	approximate nearest neighbor
'237 <b>~</b>	13	approximate nearest neighbor
	25	identify a neighbor non-exhaustive search
	33	sublinear approximate nearest neighbor
<b>'988</b> -	15	non-exhaustive search search identifying a neighbor
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## Petition asserts that Boyer-Moore algorithm is sublinear:



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