# Presentation of Petitioner Google Inc.

IPR2015-00343, IPR2015-00345, IPR2015-347, IPR2015-348

U.S. Patent Nos. 8,010,988 (Ex. 1022) 8,205,237 (Ex. 1021) 8,640,179 (Ex. 1022) 8,656,441 (Ex. 1022)

### Presented by:



# Overview

Only three references are at issue:

Reference	Non-exhaustive search	Identifying a neighbor	Determining an action	Suk sea
Ghias (Ex. 1010)	X	X	X	
Iwamura (Ex. 1012)	X	X		
Conwell (Ex. 1009)	X	X		



### Overview

 Dr. Karypis agrees that the concepts of non-exhaustive se and neighbor search were known at the time of filing

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4 Q. He does not. So as of 2000, when
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- 5 Dr. Cox' patent applications were filed,
- 6 non-exhaustive searching was a concept known
- 7 in the art, correct?
- A. Correct.

Karypis Tr. (Ex. 1020) at 26:4-8

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Q. Dr. Cox doesn't purport to have
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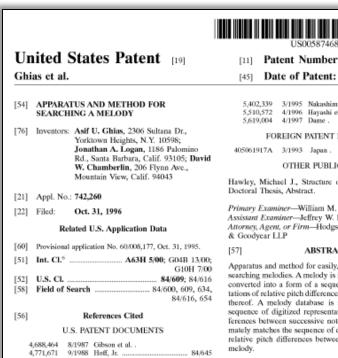
- 25 invented neighbor searching in his patents,
  - 1 does he?
  - A. I don't believe so.
    - Q. And in fact it was a concept well
  - 4 known to people skilled in the art in and
  - 5 before 2000?
  - 6 A. That is true.

Karypis Tr. (Ex. 1020) at 78:24-79



# Ghias – Overview Ex. 1010

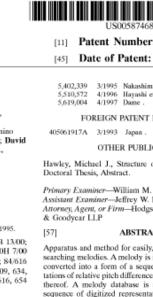
- The parties' dispute with respect to Ghias is confined to t limitations:
  - Non-exhaustive search
  - Identifying a neighbor
  - Determining an action



8/1991 Tsuruta et al. .

5,088,380 2/1992 Minamitaka .

5,038,658



84/637

OTHER PUBLIC

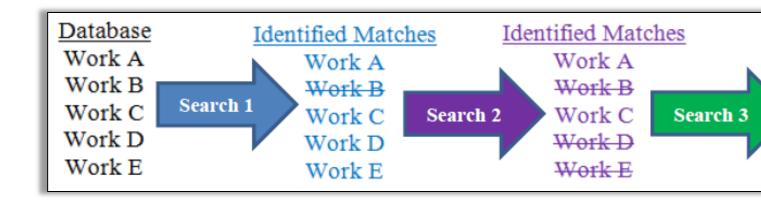
16 Claims, 3 Drav



## **Ghias**

### **Ghias Discloses A Second Search**

The subsequent searches do not consider all references



'988 Google's Reply (Paper 20) a



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