UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

GOOGLE LLC
Petitioner

v.

K.MIZRA LLC
Patent Owner

Case No. IPR2026-00304
Patent 8,438,120

DECLARATION OF MAXWELL LUDWIKOWSKI

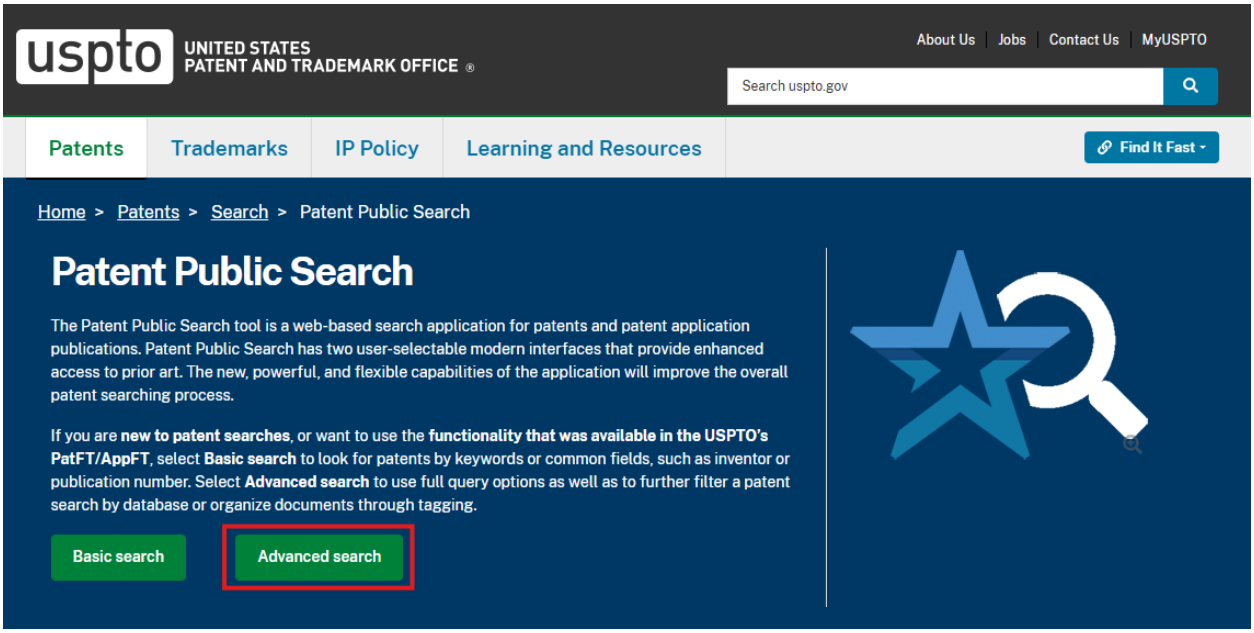
GOOGLE EXHIBIT 1031
Google v. K.Mizra
IPR2026-00304

I, Maxwell Ludwikowski, hereby declare as follows:

1. I am currently an employee of Buchanan Ingersoll & Rooney PC ("Buchanan"). I am over eighteen years old and a Section Specialist at Buchanan.

2. On June 23, 2026, I conducted three searches of U.S. patents and publications before November 6, 2009 using the USPTO Patent Center's Patent Public Search tools. Exhibit 1026 is a true and accurate copy of the search results.

3. I conducted the three searches by navigating to the USPTO's Patent Public Search home page at https://www.uspto.gov/patents/search/patent-public-search and accessing the "Advanced search" interface.[1]



[1] Full website available as Appendix A.

4. The three searches I conducted using the "Advanced search" interface are as follows:

Search String	Total Results (Unique Families)	Watanabe Result
((hyperparameter *OR* parameter) *WITH* vector *WITH* (estimat$3 *OR* predict$3)) *AND* (random *WITH* (group *OR* set *OR* sample)) *AND* ((highest *OR* optimal *OR* best) *ADJ* (result *OR* solution *OR* output)) *AND* @fd<"20081106"	93 (57)	48
((hyperparameter *OR* parameter) *WITH* vector *WITH* estimat$3) *AND* (random *WITH* (set *OR* sample)) *AND* ((optimal *OR* best) *ADJ* (result *OR* solution)) *AND* @fd<"20081106"	66 (41)	34
((hyperparameter *OR* parameter) *ADJ5* vector) *AND* (random *ADJ5* (set *OR* sample)) *AND* ((optimal *OR* best) *ADJ* (result *OR* solution)) *AND* @fd<"20081106"	56 (31)	28

5. I conducted the first search which yielded 93 results from 57 unique families, with the Watanabe reference (U.S. Patent No. 6,004,015, EX1006) being the 48th result.

6. I conducted the second search which yielded 66 results from 41 unique families, with Watanabe (EX1006) being the 34th result.

7. I conducted the third search which yielded 56 results from 31 unique families, with Watanabe (EX1006) being the 28th result.

8. In signing this Declaration, I understand that the Declaration will be filed as evidence in a contested case before the Patent Trial and Appeal Board of the United States Patent and Trademark Office. I acknowledge that I may be subject to cross-examination in the case and that cross-examination will take place within the United States. If cross-examination is required of me, I will appear for cross-examination within the United States during the time allotted for cross-examination.

9. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code.

Date: July 1, 2026

Maxwell Ludwikowski

Maxwell Ludwikowski