**PRELIMINARY SEARCH REPORT**

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| TENTATIVE TITLE | Design and fabrication of a silicon photodiode-based pyranometer |
| SHORT DESCRIPTION | Pyranometer based on silicon photodiode |
| AGENCY/AFFILIATION/  SCHOOL/COMPANY | UP Los Banos |
| SOURCE OF R&D FUNDS *(i.e. DOST)* | UPLB |
| INVENTOR(S) | Nigel Anne Delos Reyes, Adrian Augusto Sumalde |
| DATE SEARCH REPORT WAS MADE | June 22, 2020 |

Please use the following websites to conduct your preliminary search report:

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| **OFFICE** | **WEBSITE** | **SPECIFIC URL** |
| US Patent and Trademark Office | www.uspto.gov | http://www.uspto.gov/patents/process/search/index.jsp |
| World Intellectual Property Office | www.wipo.int | http://www.wipo.int/patentscope/en/ |
| European Patent Office | www.espacenet.com | http://worldwide.espacenet.com/?locale=en\_EP |
| IP Philippines | www.ipophil.gov.ph | http://onlineservices.ipophil.gov.ph/ipophilsearch/patents.aspx |
| Google | www.google.com | https://www.google.patentsearch |

RESULTS OF PRELIMINARY SEARCH:

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| Website  *i.e. Google.com* | Key words used  *e.g. Papaya seeds* | No. of hits  *e.g. 889,000* |
| www.uspto.gov | Pyranometer, silicon photodiode, Arduino microcontroller, PTFE diffuser | 103 |
| www.wipo.int | Pyranometer, silicon photodiode, Arduino microcontroller, PTFE diffuser | 838 |
| www.espacenet.com | Pyranometer, silicon photodiode, Arduino microcontroller, PTFE diffuser | 2,855 |
| www.ipophil.gov.ph | Pyranometer, silicon photodiode, Arduino microcontroller, PTFE diffuser | 402 |
| www.google.com | Pyranometer, silicon photodiode, Arduino microcontroller, PTFE diffuser | 80,976 |

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| Closest technology, if any (*from the search made, cite at least one*):  LI-200SA Silicon Pyranometer |
| Advantage(s) from the closest technology:  Cheaper but still accurate to a certain percentage. |

I declare that the above information are true and correct to the best of my/our knowledge.

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|  |  |  |  |  |
| Signature above Printed Name of Applicant |  | Signature above Printed Name of Applicant |  | Signature above Printed Name of Applicant |