

**Hiralal Mazumdar Memorial College for Women,
Kolkata**

**Patents
by the
Faculties of
H M M College for Women, Kolkata**



2023

**Hiralal Mazumdar Memorial College
for Women, Kolkata**

Accepted Patent

1. **“Power Back Up Enable Low Cost & Small Size Portable AC with Coolant Liquid Technology”** Dr.Mohammad Israr, Asik Rahaman Jamader, Ladu Ram Kumawat, Dr. Neeraj Kumar Garg, Dr. Md TabrezNafis, Dr. Vikas Kulshreshtha, Dr. Jai Kumar Maherchandani, **Puja Das**, Dr. Hitesh Panchal, Radhey ShyamMeena, Intellectual Property Australia, Australian Government [**Patent Number-2020103645, Filing Date: 24-11-2020, Expiry Date- 24-11-2028**]
<http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2020103645>
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2. **“Portable Mask with Mini Ventilation Process”** Dr. Mohammad Zubair Khan, Dr. Ravi ShankarShukla, Aijaz Ahmad Reshi, Mohd. Helmy Abd Wahab, Dr. Radzi Ambar, Dr. Mohammad Israr, **PujaDas**, Dr. L. Rajesh, Dr. K. Martin Sagayam, Asik Rahaman, Australia, Australian Government. [**Patent Number-2020103839, Filing Date: 02-12-2020**]Page 5 of 24
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3. **“Smart and portable long distance security system without using laser light”** Dr. Ravi Kumar Goyal, Prof. M. Afshar Alam, Dr. Dinesh Yadav, Dr. Farheen Siddiqui, Dr. Lokesh Sharma, Dr. MohammadIsrar, Asik Rahaman Jamader, **Puja Das**, Dr. Md Tabrez Nafis, Intellectual Property Australia, AustralianGovernment. [**Patent Number-2020104346, Filing Date: 25-12-2020**]
<http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2020104346>
4. **“Small Portable & Low-Cost Electric Appliance Control System without Arduino Uno”** Dr.Sameena Naaz, Dr. Mohd Abdul Ahad, Dr. Md Tabrez Nafis, Dr. Samar Wazir, Dr Md Shibli Rahmani, Dr.Gun Sagar Yadav, Dr. Mohammad Israr, Asik Rahaman Jamader, Dr. Ravi Kumar Goyal and **Puja Das**, Intellectual Property Australia, Australian Government. [**Patent Number- 2021100022, Filing Date: 04-01-2021**]
<http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021100022>
5. **“Low-Cost Portable Short Circuit Prevention Apparatus”** Dr Md Shibli Rahmani, Dr. Gun SagarYadav, Dr. Mohammad Israr, Asik Rahaman Jamader, Dr. Ravi Kumar Goyal and **Puja Das**, IntellectualProperty Australia, Australian Government. [**Patent Number-2021100023, Filing Date: 04-01-2021**]
<http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021100023>

6. **“Low-Cost Portable & Chargeable Laser Security System For Property Protection”** Puja Das, Asik Rahaman Jamader, , Biswaranjan Acharya ; Chitralekha Jena, Babita Panda, Sarita Samal, Ranjeeta Patel, Aliva Mohapatra, Arjyadhara Pradhan, .[**Patent Number- 2020104209, Filing Date: 21-12-2021**]
<http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2020104209>
7. **“Internet Of Things (Iot) Sensor Based Smart Fan”** Biswaranjan Acharya, Priya Pandharbale, B. Pradhan, Ranjan Manas, Alivarani Mohapatra, Sarita Samal, Asik Rahaman Jamader, Puja Das, [**Patent Number- 2020104345, Filing Date: 24-12-2021**]
<http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2020104345>
8. **“Portable Smart Bottle For Instant Cold And Hot Water”** Biswaranjan Acharya, Priya B Pandharbale, , Biswa Mohan Sahoo , Puja Das, S, Dhanasekar , Ahona, L. Rajesh, K. Martin Sagayam, , Asik Rahaman Jamader. [**Patent Number- 20201100139, Filing Date: 11-01-2021**]
<http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021100139>
9. **“Smart System for Cooking Gas Production Using Electromagnetic Generator”** Puja Das, Asik Rahaman Jamader, Dr. Mohammad Israr, Dr. Vineet Tirth, Dr. Parul Gupta, M. Suresh, Dr. HiteshPanchal, Dr. Debabrata Samanta, Radhey Shyam Meena, Ramesh Chandra Panda, Dr. Sanjay Singla, andDr. Ravindra Pathak, Intellectual Property India, Office of the Controller General of Patents, Design andTrade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry,Government of India.[Patent Publication Number-44/2019, Patent Application Number-201911043172]
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10. **“System and Method for Real-Time Status Notification of Group Chat Without Using Internet”**Asik Rahaman Jamader, Puja Das, Dr. Mohammad Israr, Dr. Parul Gupta, Dr. Jyoti Mishra, Dr. AshishMishra, Dr Sanjeet Kumar, Dr Ramakant Bhardwaj, Dr. Ravi Shankar Shukla, Dr. Mohammad ZubairKhan, M. Suresh, Dr. Hitesh Panchal, Dr. Debabrata Samanta, Radhey Shyam Meena, and RameshChandra Panda, Intellectual Property India, Office of the Controller General of Patents, Design andTrade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry,Government of India.
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11. **“Secure & Real-Time Status Notification Based Dynamic Messaging Method using In-Built MessageTool without using Internet”** Asik Rahaman Jamader, **Puja Das**, Dr. Mohammad Israr, Dr. Mohammad Zubair Khan, Dr. Weil Said, Dr. Akhilesh Kumar Sharma, Radhey Shyam Meena, RameshChandra Panda, M. Suresh, Dr. Hitesh Panchal, Dr. Debabrata Samanta, and Dr. Niranjnath M., Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Publication Number-48/2019, Patent Application Number- 201911045703] http://ipindia.gov.in/writereaddata/Portal/IPOJournal/1_4813_1/Part-1.pdf https://patentscope.wipo.int/search/en/detail.jsf?docId=IN278256119&_cid=P20-K4KSVZ-26629-1
12. **“Computer Implemented Method for Generating Notification during Call without Using Internet in Wireless Communication”** Asik Rahaman Jamader, **Puja Das**, Dr. Mohammad Zubair Khan, Dr. Mohammad Israr, Dr. Wael Said, Deepak Pathak, Radhey Shyam Meena, M. Suresh, Dr. Hitesh Panchal, Dr. Debabrata Samanta, Ramesh Chandra Panda, Biswaranjan Acharya and Dr. Niranjnath M., Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Publication Number-49/2019, Patent Application Number- 201911047977] http://ipindia.gov.in/writereaddata/Portal/IPOJournal/1_4816_1/Part-1.pdf https://patentscope.wipo.int/search/en/detail.jsf?docId=IN283164473&_cid=P10-K709VQ-02154-1
13. **“System of Agriculture Robot for Automatic Spraying Seeding, Harvesting and Monitoring Crop”** Dr. Mohammad Israr, Ramesh Chandra Panda, Dr. Itishree Mohanty, Dr. Mohammad Zubair Khan, Dr. Parul Gupta, Dr. Ravi Shankar Shukla, Dr. Ashish Mishra, Asik Rahaman Jamader, **Puja Das**, Dr. Arti Vaish, Dr. Lokanatha Dhall Samanta, Deepak Pathak, Dr. Subhakanta Dash, M. Suresh, Dr. Vinay Chandra Jha, Dr. Suresh Singh, Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Publication Number-52/2019, Patent Application Number- 201911052742] http://ipindia.gov.in/writereaddata/Portal/IPOJournal/1_4823_1/Part-1.pdf https://patentscope.wipo.int/search/en/detail.jsf?docId=IN283284271&_cid=P10-K70A6Q-04769-1
14. **“Refrigeration System of Clay Cool Chamber Using Solar Energy”** Ramesh Chandra Panda, Dr. Mohammad Israr, Dr. Itishree Mohanty, Dr. Lokanatha Dhall Samanta, Dr. Parul Gupta, Dr. Ashish Mishra, Asik Rahaman Jamader, **Puja Das**, Dr. Arti Vaish, Deepak Pathak, Dr. Subhakanta Dash, M. Suresh, Dr. Vinay Chandra Jha, Dr. Suresh Kumar Singh, Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. Page 11 of 24 [Patent Publication Number-52/2019, Patent Application Number- 201911053846] http://ipindia.gov.in/writereaddata/Portal/IPOJournal/1_4823_1/Part-1.pdf

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15. **“Improved Hand Operated Embroidery Tool for Easy Operation”**, Asik Rahaman Jamader, Dr.Mohammad Israr, **Puja Das**, Dr. Mohammad Zubair Khan, Dr. M.P. Singh, Biswaranjan Acharya,Himansu Das, Ramesh Chandra Panda, Radhey Shyam Meena, M. Suresh, Dr. Arti Vaish, Dr. Kishor Kumar Sadasivuni, and Dr. Anshul Gangele, Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Publication Number-06/2020, Patent Application Number-202011003162]
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16. **“System and Method for Extraction of Sweet Compounds from Natural Stevia”**, **Puja Das**, Dr.Mohammad Israr, Asik Rahaman Jamader, Dr. K. Martin Sagayam, Biswa Ranjan Acharya, DrRanjeet Kumar Rout, Dr Harveer Singh Pali, A. Amir Anton Jone, Swarnalata Nayak, S.Santhosh, and Dr.Anshul Gangele, Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Governmentof India. [Patent Publication Number-08/2020, Patent Application Number- 202011005968]
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17. **“System of Simultaneous Charging and Discharging power Back Up and Method Thereof”** S. Santhosh, Subash Sivapandi, Dr. K. Martin Sagayam, **Puja Das**, Dr. Mohammad Israr, Asik Rahaman Jamader, Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Publication Number-12/2020, Patent Application Number- 202011010537]
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18. **“System and Method for Real Time Monitoring and Predicting Heart Health Performance”** Biswa Ranjan Acharya, Dr. Pankaj Dadheech, **Puja Das**, Dr. Deepti Bala Mishra, Satya Ranjan Dash, Dr. Mohammad Israr, Suresh Chandra Maharana, Anupama Baral, Asik Rahaman Jamader, Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Publication Number-

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19. **“Multilayer Reusable activated Carbon face Mask for Preventing Viral Infection”** Dr. K. Martin Sagayam, **Puja Das**, Prof. (Dr.) Mohammad Israr, Dr. Vinita Mathur, Asik Rahaman Jamader, Dr. Osamah Ibrahim Khalaf, Dr. Theyazn H. H. Aldhyani, Dr. Mosleh Hmoud Al-Adhaileh, Dr. Ghaida Muttashar Abdulsahib, Digvijay Pandey and Binay Kumar Pandey, Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Publication Number-44/2020, Patent Application Number- 202011045474]
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20. **“ Portable Backup Apparatus”** Biswaranjan Acharya , Asik Rahaman Jamader, Puja Das, Dr. Deepak Kalra, Dr. Manas Ranjan Pradhan, Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Publication Number-31/2020, Patent Application Number- 202011045790]
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21. **“INTELLIGENT CIRCUIT ENABLE PORTABLE TESTING APPARATUS FOR SERVO MOTOR”** Mohapatra Alivarani; Srikanta Mohapatra, ; Biswaranjan Acharya, ; **Puja Das**, ; Asik Rahaman Jamader, ; Pradhan, Arjyadhara ; Panda, Babita ; Nanda, Lipika ; Sahoo, Satyabrata, [Patent Number- 2021101296 Filing Date: 12-03-2021]
<http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021101296>
22. **“SYSTEM OF INTERNET OF THINGS (IOT) BASED WORKER SAFETY HELMET FOR MINING TRACKING”** Acharya, Biswaranjan ; Dash, Satya Ranjan ; Nanda, Ipseeta ; Pradhan, Manas Ranjan ; Mishra, Manoj Ranjan ; Dash, Sidhartha Sekhar ;, Asik Rahaman Jamader ; **Das, Puja** , [Patent Number- 2021101371 Filing Date: 16-03-2021]
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23. **“INTERNET OF THINGS APPARATUS FOR DETECTION & MONITOR OPERATION PHYSICAL PARAMETER FOR SAFE MANHOLE”** Acharya, Biswaranjan ; Makkar, Sandhya ; Nanda, Ipseeta ; Dash, Alina ; **Das, Puja** ;, Asik Rahaman Jamader; Nath, Mahendra Prasad ; Dash, Sidhartha Sekhar ; Shahi, Sarvesh Kumar , [Patent Number- 2021101890 Filing Date: 13-04-2021]
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24. "APPARATUS FOR REAL TIME PRISONER MONITORING & ALERTING SYSTEM USING IOT" Acharya, Biswaranjan ; Makkar, Sandhya ; Sharma, Hemlata ; Nanda, Ipseeta ; Dash, Alina ; Das, Sudhansu Bala ; Khan, Nikhat Raza ; Imam, Haru ; **Das, Puja** ;, Asik Rahaman Jamader,[**Patent Number- 2021101932 Filing Date: 14-04-2021**]
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25. "SMART GLOVE FOR VISUALLY IMPAIRED PEOPLE" Acharya, Biswaranjan ; Nanda, Ipseeta ; Makkar, Sandhya ; Khatua, Lizina ; Imam, Haru ; Khan, Nikhat Raza ; Barskar, Raju ; Mishra, Deepti Bala ; **Das, Puja** ; Asik Rahaman Jamader,[**Patent Number- 2021101986 Filing Date: 16-04-2021**]
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26. "SMART AND INTELLIGENT APPARATUS FOR AUTOMATIC CAR WIPER" Nanda, Ipseeta ; Kumar M., (Dr.) Dileep ; Govindarajo, Normnala S. ; Dikshit, Shashi Kant ; **Das, Puja** ;, Asik Rahaman Jamader ; Acharya, Biswaranjan ,[**Patent Number- 2021102365 Filing Date: 05-05-2021**]
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27. "PORTABLE APPARATUS FOR UNDERGROUND CABLE FAULT DETECTION" Acharya, Biswaranjan ; Pradhan, Arjyadhara ; Ateeq, Karamath ; Mohapatra, Alivarani ; **Das, Puja** ;, Asik Rahaman Jamader; Sahoo, Satyabrata ; Pani, Samita Rani ; Biswal, Tapaswini ,[**Patent Number- 2021102407 Filing Date: 07-05-2021**]
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28. A Bioelectric Device for the Treatment of Chronic Sinusitis **Ahmad, S. R.**, 20 June 2023, **UK Patent No. 6289480**, Priority date 12 June 2023
29. Cancer Screening Device **Ahmad, S. R.**, 20 June 2023, **UK Patent No. 6289478**, Priority date 12 June 2023
30. A Smart Cervical Cancer Screening Device **Ahmad, S. R.**, 20 June 2023, **UK Patent No. 6289479**, Priority date 12 June 2023
31. Sensor-Based Glucose Monitoring Device for Diabetic Patients **Ahmad, S. R.**, 20 June 2023, **UK Patent No. 6289481**, Priority date 12 June 2023
32. A Portable Device to Analyse the Biochemical Profile of Urine **Ahmad, S. R.**, 20 June 2023, **UK Patent No. 6289483**, Priority date 12 June 2023
33. Portable and Hanging Wall Laminar Air Flow Unit **Ahmad, S. R.**, 21 June 2023, **UK Patent No. 6289484**, Priority date 12 June 2023
34. A Device to Predict Menopause in Females Based on the Level of Anti-Mullerian Hormone (AMH) **Ahmad, S. R.**, 27 June 2023, **UK Patent No. 6289482**, Priority date 12 June 2023
35. IoT-based Health Monitoring and Security System for Medicinal Plants **Ahmad, S. R.**, & Ushakiran A., 26 May 2023, **UK Patent No. 6282272**, Priority date 12 May 2023
36. A smartwatch to monitor movement symptoms of Parkinson's patients and assess response to drug & physiotherapy treatment **Ahmad, S. R.**, **Ahmad, F.**, **Abiha, U.**, **Das, P.**, June 2023, **UK Patent 6289486**, Priority date 12 June 2023

37. IoT-based Wearable Device to Track and monitor healthcare for Monitoring Alzheimer's Patients' Health Ahmad, **S. R., Ahmad, F.,** Abiha, U., Das, P., June 2023, **UK Patent 6289485**, Priority date 12 June 2023
38. A Novel Marine Molecule for Neurological Disorders. **Ahmad, S. R.,** and Ahmad F., April 2023, **Indian Patent Application No. 202331027858**, Priority date 17 April 2023
39. Unique Shape & Configuration of Processed Cat Food **Ahmad, S. R.,** and Das, P., 2023. **Indian Patent Application No. 376660-001**, Priority date 03 January 2023
40. IoT-Based Fingerprint Engine Ignition for Motor Vehicle Indian Patent **Ahmad, S. R.,** Krishna, R. R., Jagannayaki, K., Suresh, N., Ahmad, S., Srivastava, A. K., Sendil, L. M., Ranjini, D., Mayank, M. A., Neetu, and Das, P., 2023, **Indian Application No. 202331001606**, Priority date 08 January 2023
41. Development of VISR Smartwatch with Yoga Asanas to Relieve the Stress of a Visually-Impaired Person **Ahmad, S. R.,** Agrawal, A., Bhakuni, S., and Das, P., 2023, **Indian Patent Application No. 202331004332**, Priority date 23 January 2023
42. Device for detecting Oxidative value in Fruits and Vegetable **Ahmad, S. R.,** and Agrawal, U., 2023. **Indian Patent Application No. 381454-001**, Priority date 14 March 2023;
43. IoT-Enabled Fruit Quality Testing Device **Ahmad, S. R.,** and Faizan, Ahmad., 2023, **Indian Patent Application No. 385158-001**, Priority date 24 April 2023
44. A Unique Herbal Health Drink for TYPE- 2 Diabetic Individuals and Method Thereof. **Ahmad, S. R.,** and Ghosh, P., 2022, **Indian Patent Application No. 202231021308**, Priority date 09 April 2022
45. A Novel Calcium-Enriched Soymilk-Based Probiotic Curd for Lactose Intolerant Patients and the Method Thereof **Ahmad, S. R.,** and Ghosh, P., 2022 **Indian Patent Application No. 202231021351**, Priority date 09 April 2022
46. A Healthy Millet-Based Probiotic Curd and Method Thereof **Ahmad, S. R.,** and Ghosh, Pritha., 2022, **Indian Patent Application No. 202231021509**, Priority date 11 April 2022
47. A Synbiotic Misti Dahi (Sweet Curd) and Method Thereof **Ahmad, S. R.,** and Ghosh, Pritha., 2022, **Indian Patent Application No. 202231021652**, Priority date 11 April 2022
48. An Aromatic Oil Composition for Relieving the Pain during Dysmenorrhoea **Ahmad, S. R.,** and Ghosh, P., 2022, **Indian Patent Application No. 202231037165**, Priority date 29 June 2022
49. Recognize Medicinal Plants and Bioactive Metabolites Automatically on the Spot using Deep Learning **Ahmad, S. R.,** and Das, P., 2022. **Indian Patent Application No. 202231038229**, Priority date 03 July 2022
50. Unique Shape & Configuration Two-in-One Square Bottle **Ahmad, S. R.,** and Das, P., 2022. **Indian Patent Application No. 367648-001**, Priority date 13 July 2022
51. Patent 8. Unique Shape & Configuration Two in one Round Bottle **Ahmad, S. R.,** and Das, P., 2022. **Indian Patent Application No. 367650-001**, Priority date 13 July 2022
52. Unique Shape & Configuration of Processed Cat Food **Ahmad, S. R.,** and Das, P., 2022, **Indian Patent Application No. 370714-001**, Priority date 12 September 2022