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**ACCEPTED AND
PUBLISHED PATENT**

ATTESTED

Principal & Secretary
Hiralal Mazumdar Memorial College
For Women
Dakshineswar, Kolkata-700 035

Details of Patent

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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<https://patentscope.wipo.int/search/en/detail.jsf?docId=AU313300277&cid=P10-KJFUE88345-1>

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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[18669-1](#)

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. Mohammad Israr, Asik Rahaman Jamader, **Puja Das**, Dr. Md Tabrez Nafis, Intellectual Property Australia, Australian Government. [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 Sagar Yadav, Dr. Mohammad Israr, Asik Rahaman Jamader, Dr. Ravi Kumar Goyal and **Puja Das**, Intellectual Property 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]

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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]

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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]

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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 and Trade 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. Ashish Mishra, Dr. Sanjeet Kumar, Dr. Ramakant Bhardwaj, Dr. Ravi Shankar Shukla, Dr. Mohammad Zubair Khan, M. Suresh, Dr. Hitesh Panchal, Dr. Debabrata Samanta, Radhey Shyam Meena, and Ramesh Chandra Panda, 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-45/2019, Patent Application Number-201911044119]

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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]
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12. **“Computer Implemented Method for Generating Notification during Call without Using Internet inWireless 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]

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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. Sitesh 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]

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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. Sitesh Kumar Singh, Intellectual Property India, Office of the Controller General of

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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] [http://ipindia.gov.in/writereaddata/Portal/IPOJournal/1_4840_1/Par
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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, Government of 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-20/2020, Patent Application Number-202031013658]

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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]
<http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021101371>

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]**
<http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021101890>
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]**
<http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021101932>
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]**
<http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021101986>
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]**

<http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021102365>

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]**

<http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021102407>

Patent Filed And Published

Hiralal Mazumdar Memorial College for Women developed the **IoT-Based Mental Health Diagnostic Device**. Using IoT technology, the device intends to provide a simple and convenient method for diagnosing and monitoring mental health disorders. The Indian Patent Office has received a design patent registration for the “ IoT-Based Mental Health Diagnostic Device” vide application number 385157-001 dated 27/04/2023

About Design Patent:

The portable, light weighted and easy to carry IoT-Based Mental Health Diagnostic Device's distinctive and innovative design is depicted with many drawings and thoroughly described, used along with a smartphone app to access real-time mental health data and safeguarded by the design patent from infringement by third parties in which the owner of the patent has the legal authority to stop anyone from creating, using, or offering for sale a product with a comparable design.

Advantages:

- Profitmaking, accessible and user-friendly design of the device with widest benefits.
- Simple to use and handle with extensive range of users and capacity.

Design Application Details

Application Number: 385157-001 Rectangular Strap
Cbr Number: 205317
Cbr Date: 27/04/2023 19:57:57
Applicant Name: HIRALAL MAZUMDAR MEMORIAL COLLEGE FOR WOMEN

Design Application Status

Application Status: Design Accepted and Published, Journal No is 26/2023 and Journal Date is 30/06/2023

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