



Patents Registered by Faculty

Sr no.	Label/Name of Patent	Year	Patent No.	Date of patent
Dr. Meenakshi Garg, Asst. Prof. of Computer Science				
1	A Secure Context based Routing Protocol (CBRP) for IoT	2021-22	2021100123	24-03-2021
Dr. Gaurav Dhiman, Asst. Prof. of Computer Science				
1	Velocity and Network Condition Based Network Selection Method for WiMAX/WLAN Integrated Networks	2020-21	2020102358	21-10-2020
2	A smart algorithm for source allocation and self management of wireless IOT Gateway	2020-21	202021004742	7-02-2020
3	Lightweight data sharing protocol for vanet	2020-21	202021032638	28-02-2020
4	Method for predicting disease using machine learning	2020-21	202011032563	28-02-2020
5	An Artificial Intelligence based System for Medicine Dispensing	2021-22	2020103411	13-01-2021
6	An Artificial Intelligence based Solar Powered Glove with Gestures for Deaf and Dumb	2021-22	2020103425	13-01-2021
7	A Method for Optimizing the Convergence Performance of Data Learning with Minimal Computational Steps	2021-22	2020103440	13-01-2021
8	An IoT and Deep Learning enabled Device for Monitoring Social Distancing	2021-22	2020103880	27-01-2021
9	A Method for Data Security using Virtual Key Replacement in Image Steganography	2021-22	2020104195	31-03-2021
10	Energy-Effective and Secure Wireless Data Transfer Scheme for Mobile Nodes in Smart City Applications	2021-22	2020104348	31-03-2021
11	A Secure Context based Routing Protocol (CBRP) for IoT	2021-22	2021100123	24-03-2021
12	Certificate of registration of design	2022-23	356469-001	10-03-2022
13	Privacy-preserving Authentication and Key-Management Protocol for Health Information System	2021-22	2021101195	21-04-2021
14	Packet delay and bandwidth consideration for real time and non-real time Application for QOS oriented network selection in IEEE 802.16	2020-21	2020102588	4-11-2021





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CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2021100123

The Commissioner of Patents has granted the above patent on 24 March 2021, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

Prasad Lokulwar of Associate Professor, G H Raisoni College of Engineering Nagpur India

Basant Kumar Verma of Professor, G H Raisoni College of Engineering Nagpur India

Gaurav Dhiman of Assistant Professor, Department of Computer Science, Government Bikram College of Commerce Patiala Punjab 147001 India

S. Vimal of Assistant Professor (Senior Grade), Department of Information Technology, National Engineering College Tamil Nadu 628503 India

Subbulakshmi Pasupathi of Assistant professor (Senior Grade), School of Computing, Scope, VIT University-Chennai Campus Tamilnadu 600127 India

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Mukesh Soni of Teaching Consultant, UK International Qualifications, Ltd., Middle East, Asia & Africa Regional Off. Sharjah 62192 United Arab Emirates

Meenakshi Garg of Assistant Professor, Department of Computer Science, Government Bikram College of Commerce Patiala Punjab 147001 India

Bhavna Bajpal of Associate Professor, Dr C V Raman University Khandwa (M.P.) 450001 India

H. R. Deshmukh of Director, Board of Examination, SGBAU Amravati India

Mahip M Bartere of Associate Professor, G H Raisoni University Amravati Maharashtra India

Title of invention:

A SECURE CONTEXT BASED ROUTING PROTOCOL (CBRP) FOR IOT

Name of inventor(s):

Lokulwar, Prasad; Verma, Basant Kumar; Dhiman, Gaurav; Vimal, S.; Pasupathi, Subbulakshmi; Arora, Vinay; Soni, Mukesh; Garg, Meenakshi; Bajpal, Bhavna; Deshmukh, H. R. and Bartere, Mahip M.

Term of Patent:

Eight years from 10 January 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.



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Co-ordinator
NAAC
Govt. Bikram College of
Commerce, Patiala.

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Dated this 24th day of March 2021
Principal
Govt. Bikram College of
Commerce, Patiala.

[Signature]
Criterion Incharge

PATENTS ACT 1990

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CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2020102358

The Commissioner of Patents has granted the above patent on 21 October 2020, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

Gomathi S of Teaching Consultant, UK International Qualifications, Ltd, Accredited by Qualifi - Regulated by OfQual UK., Middle East, Asia & Africa Regional Office, Coimbatore, Tamil Nadu 641035 India

MUKESH SONI of Assistant Professor, Department of Computer Engineering, Smt. S. R. Patel Engineering College Dabhi, Unjha Gujarat 384170 India

Jyoti Devi of Assistant Professor, Department of Computer Engineering, Marwadi Education Foundation Morbi Road Rajkot, Gujarat 360003 India

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Gaurav Dhiman of Assistant Professor, Department of Computer Engineering, Government Bikram College of Commerce Lehal colony, Patiala India

Prathamesh Churi of Assistant Professor, Department of Computer Engineering, Mukesh Patel School of Technology Management and Engineering NMIMS University, Mumbai 400056 India

Title of invention:

Velocity and Network Condition Based Network Selection Method for WIMAX/WLAN Integrated Networks

Name of inventor(s):

S., Gomathi; SONI, MUKESH; Devi, Jyoti; Nayyar, Anand; Jaware, Tushar Hrishikesh; Dembrani, Mahesh Bhimsham; Dhiman, Gaurav and Churi, Prathamesh

Term of Patent:

Eight years from 21 September 2020

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.



Dated this 21st day of October 2020

Commissioner of Patents

PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.

Application Details

APPLICATION NUMBER	202031004742
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	04/02/2020
APPLICANT NAME	1. Mr. MUKESH SONI 2. Dr. DILEEP KUMAR SINGH 3. Dr. GAURAV DHIMAN 4. Mr. BRAJENDRA SINGH RAJPUT 5. Mr. PRYANK NEMA 6. Dr. ROJALINI PATRO 7. Mr. MEET K. PRAJAPATI
TITLE OF INVENTION	A SMART ALGORITHM FOR SOURCE ALLOCATION AND SELF MANAGEMENT OF WIRELESS IOT GATEWAY
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	reachserevanan@gmail.com
ADDITIONAL-E-MAIL (As Per Record)	reachserevanan@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	07/02/2020

Application Status

[View Documents](#)

Application Details

APPLICATION NUMBER	202021032638
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	30/07/2020
APPLICANT NAME	1 . Mr. Irfankhan Iqbalbhai Poladi 2 . Dr. S. Gomathi 3 . Dr. Gaurav Dhiman 4 . Mrs. Jyoti Devi 5 . Mr. Prathamesh Churi 6 . Dr. Niranjnamurthy. M 7 . Mr. Mukesh Soni 8 . Dr. Manmohan Singh
TITLE OF INVENTION	LIGHTWEIGHT DATA SHARING PROTOCOL FOR VANET
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	prachipendey551@gmail.com
ADDITIONAL-EMAIL (As Per Record)	irfan.poladi@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	28/08/2020



APPLICATION NUMBER	202011032563
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	29/07/2020
APPLICANT NAME	1 . Ms. RASHI KOHLI 2 . Dr. S. GOMATHI 3 . Mr. MUKESH SONI 4 . Dr. RAJANKUMAR G. PATEL 5 . Mr. PRATHAMESH CHURI 6 . Dr. GAURAV DHIMAN 7 . Ms. AMANDEEP KAUR 8 . Mr. RAJIT NAIR 9 . Dr. NIRANJANAMURTHY. M 10 . Dr. DILEEP KUMAR SINGH
TITLE OF INVENTION	METHOD FOR PREDICTING DISEASE USING MACHINE LEARNING
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	reachsaravanan@gmail.com
ADDITIONAL-E-MAIL (As Per Record)	reachsaravanan@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	28/08/2020



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CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2020103411

The Commissioner of Patents has granted the above patent on 13 January 2021, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

Rashi Kohli of Senior Member IEEE, R3 Region, 219 Harmony Blvd Pooler Georgia 31322 United States of America

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B. Paulchamy of Professor & Head, Dept of Electronics & Communication Engg Coimbatore Tamilnadu 641032 India

Title of invention:

AN ARTIFICIAL INTELLIGENCE BASED SYSTEM FOR MEDICINE DISPENSING

Name of inventor(s):

Kohli, Rashi; Chaudhary, Rashmi; Gomathi, S.; Phutela, Sparsh; Soni, Mukesh; Dhiman, Gaurav; Singar, Chandra Prakash and Paulchamy, B.

Term of Patent:

Eight years from 12 November 2020

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.



Dated this 13th day of January 2021

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CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2020103425

The Commissioner of Patents has granted the above patent on 13 January 2021, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

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Deepika Saxena of Mechanical Engineering, M.B.M Engineering College, Jai Narain Vyas University Jodhpur Rajasthan 342011 India

Title of invention:

AN ARTIFICIAL INTELLIGENCE BASED SOLAR POWERED GLOVE WITH GESTURES FOR DEAF AND DUMB

Name of inventor(s):

Dhiman, Gaurav; Gomathi, S.; Arora, Vinay; Singh, Krishna Kant; Vimal, S.; Kaliappan, M.; Singh, Akansha; Soni, Mukesh; Kaur, Amandeep and Saxena, Deepika

Term of Patent:

Eight years from 13 November 2020

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.



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CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2020103440

The Commissioner of Patents has granted the above patent on 13 January 2021, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

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S. Gomathi of Teaching Consultant, UK International Qualifications Ltd., Middle East, Asia & Africa Region. Off. Sharjah 62192 United Arab Emirates

Title of invention:

A METHOD FOR OPTIMIZING THE CONVERGENCE PERFORMANCE OF DATA LEARNING WITH MINIMAL COMPUTATIONAL STEPS

Name of inventor(s):

Mahajan, Arpana Dipak; Dhiman, Gaurav; Gupta, Rajeev Kumar; Patro, Rojalini; Patro, Rashmi Rani; Ahmed, Gulfishan Firdose; Soni, Mukesh; Barskar, Raju; Singh, Yudhvir and Gomathi, S.

Term of Patent:

Eight years from 14 November 2020



Dated this 13th day of January 2021

Commissioner of Patents

PATENTS ACT 1990

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CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2020103880

The Commissioner of Patents has granted the above patent on 27 January 2021, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

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Deepika Saxena of Mechanical Engineering, M.B.M Engineering College, Jai Narain Vyas University Jodhpur Rajasthan 342011 India

Vikram Kulkarni of Asst Prof., Dept. of Information Tech., Mukesh Patel School of Technology, Management & Engineering SVKM's NMIMS University, Mumbai Maharashtra 400056 India

Title of invention:

AN IOT AND DEEP LEARNING ENABLED DEVICE FOR MONITORING SOCIAL DISTANCING

Name of inventor(s):

Soni, Mukesh; Hussain, Naziya; Patel, Nimisha; Singholi, Ajay K. S.; Mehta, Komal Parag; Cengiz, Korhan; Subramanian, Senthilkumar; Dhiman, Gaurav; Saxena, Deepika and Kulkarni, Vikram

Term of Patent:

Eight years from 3 December 2020

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.



Dated this 27th day of January 2021

Commissioner of Patents

PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.

CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2020104195

The Commissioner of Patents has granted the above patent on 31 March 2021, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

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S. Gomathi of Teaching Consultant, UK International Qualifications Ltd., Middle East, Asia & Africa Regional Off. Sharjah 62192 United Arab Emirates

Title of invention:

A METHOD FOR DATA SECURITY USING VIRTUAL KEY REPLACEMENT IN IMAGE STEGANOGRAPHY

Name of inventor(s):

Verma, Basant Kumar; Bartere, Mahip M.; Aquatar, Mahammed Osim; Kumar, Pankaj; Panda, Rahas Bihari; Dhiman, Gaurav; Soni, Mukesh; Lokulwar, Prasad; Cengiz, Korhan and Gomathi, S.

Term of Patent:

Eight years from 20 December 2020

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.



Dated this 31st day of March 2021

Commissioner of Patents

PATENTS ACT 1990

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CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2020104348

The Commissioner of Patents has granted the above patent on 31 March 2021, and certifies that the below particulars have been registered in the Register of Patents.

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K. Vijayalakshmi of Professor, Dept. of Computer Science & Engg., Ramco Institute of Technology Rajapalayam Tamil Nadu India

Rakesh Kumar Joon of Associate Prof. & Head Dept. of ECE, ECE Ganga Institute of Tech & Management, Kablana Jhajjar Haryana 124104 India

Rishu Bhatia of Associate Professor, Ganga Institute of Tech. & Management, Kablana Jhajjar Haryana 124104 India

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Dheer Dhvaj Barak of Assistant Professor, Dept of Computer Science & Engineering, Vaish College of Engineering Rohtak Haryana 124001 India

Title of invention:

ENERGY-EFFECTIVE AND SECURE WIRELESS DATA TRANSFER SCHEME FOR MOBILE NODES IN SMART CITY APPLICATIONS

Name of inventor(s):

Dhiman, Gaurav; Vimal, S.; Vijayalakshmi, K.; Joon, Rakesh Kumar; Bhatia, Rishu; Kumar, Vivek; Arora, Vinay; Soni, Mukesh; Kaur, Amandeep and Barak, Dheer Dhvaj

Term of Patent:

Eight years from 26 December 2020



Dated this 31st day of March 2021

Commissioner of Patents

PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.



Australian Government

IP Australia

CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2021100123

The Commissioner of Patents has granted the above patent on 24 March 2021, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

Prasad Lokulwar of Associate Professor, G H Raisoni College of Engineering Nagpur India

Basant Kumar Verma of Professor, G H Raisoni College of Engineering Nagpur India

Gaurav Dhiman of Assistant Professor, Department of Computer Science, Government Bikram College of Commerce Patiala Punjab 147001 India

S. Vimal of Assistant Professor (Senior Grade), Department of Information Technology, National Engineering College Tamil Nadu 628503 India

Subbulakshmi Pasupathi of Assistant professor (Senior Grade), School of Computing, Scope, VIT University-Chennai Campus Tamilnadu 600127 India

Vinay Arora of Department of Computer Science & Engg., Thapar Institute of Engg. & Tech. Patiala 147004 India

Mukesh Soni of Teaching Consultant, UK International Qualifications, Ltd., Middle East, Asia & Africa Regional Off. Sharjah 62192 United Arab Emirates

Meenakshi Garg of Assistant Professor, Department of Computer Science, Government Bikram College of Commerce Patiala Punjab 147001 India

Bhavna Bajpai of Associate Professor, Dr C V Raman University Khandwa (M.P.) 450001 India

H. R. Deshmukh of Director, Board of Examination, SGBAU Amravati India

Mahip M Bartere of Associate Professor, G H Raisoni University Amravati Maharashtra India

Title of invention:

A SECURE CONTEXT BASED ROUTING PROTOCOL (CBRP) FOR IOT

Name of inventor(s):

Lokulwar, Prasad; Verma, Basant Kumar; Dhiman, Gaurav; Vimal, S.; Pasupathi, Subbulakshmi; Arora, Vinay; Soni, Mukesh; Garg, Meenakshi; Bajpai, Bhavna; Deshmukh, H. R. and Bartere, Mahip M.

Term of Patent:

Eight years from 10 January 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.



Dated this 24th day of March 2021

Commissioner of Patents

PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.



12



ORIGINAL

No. 110064

भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE

CERTIFICATE OF REGISTRATION OF DESIGN

Design No. 356469-001
Date 11/01/2022 09:41:59
Reciprocity Date*
Country

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 23-08 in respect of the application of such design to AUTOMATIC ULTRASONIC SENSOR BASED HAND SANITIZER DISPENSER in the name of I.DR. GAURAV DHIMAN, ASSISTANT PROFESSOR DEPARTMENT OF COMPUTER SCIENCE GOVERNMENT BIKRAM COLLEGE OF COMMERCE PATIALA-147001, PUNJAB, INDIA 2. DR. AMANDEEP KAUR, ASSISTANT PROFESSOR DEPARTMENT OF COMPUTER SCIENCE SRI GURU GRANTH SAHIB WORLD UNIVERSITY FATEHGARH SAHIB, PUNJAB 140407

in pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

Controller General of Patents, Designs and Trade Marks

*The reciprocity date (if any) which has been allowed and the name of the country.
Copyright in the design will subsist for ten years from the date of Registration, and may under the terms of the Act and Rules, be extended for a further period of five years.
This Certificate is not for use in legal proceedings or for obtaining registration abroad

ASHUTOSH SWARNKAR,
BLI CONSULTANCY PVT. LTD., 627-A, SANJAY
COLONY, BHILWARA, RAJASTHAN - 311001

Date of Issue 10/03/2022 12:37:09



Australian Government

IP Australia

CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2021101195

The Commissioner of Patents has granted the above patent on 21 April 2021, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

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Ihtiram Raza Khan of Assistant Professor, Department of Computer Science, Jamia Hamdard Delhi India

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S. Gomathi of Teaching Consultant, UK International Qualifications, Ltd., Middle East, Asia & Africa Regional Off. Sharjah 62192 United Arab Emirates

Title of invention:

Privacy-preserving Authentication and Key-Management Protocol for Health Information System

Name of inventor(s):

Soni, Mukesh; Singh, Dileep Kumar; Gupta, Vedika; Hasan, Asif; Dhiman, Gaurav; Churi, Prathamesh; Khan, Ihtiram Raza; Sharma, Tripti; doewes, Rumi iqbal and Gomathi, S.

Term of Patent:

Eight years from 7 March 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.



Dated this 21st day of April 2021

Commissioner of Patents

PATENTS ACT 1990

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CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2020102588

The Commissioner of Patents has granted the above patent on 4 November 2020, and certifies that the below particulars have been registered in the Register of Patents.

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Title of invention:

Packet Delay and Bandwidth Consideration for Real-time and Non-real-time Applications for QoS Oriented Network Selection in IEEE 802.16e WIMAX Networks

Name of inventor(s):

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Term of Patent:

Eight years from 3 October 2020

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.



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