

Patents

- **Inventors:** Rajesh Thakkar, Mayank Shrivastava, M. Shojaei, D. K. Sharma, V. Ramgopal Rao, M. B. Patil
Title: Operational Amplifier Having Improved Slew Rate
Patent No: 8,089,314
Date: 0-0-2014

- **Inventors:** Mayank Shrivastava, M. Shojaei, D. K. Sharma, V. Ramgopal Rao
Title: Nonvolatile floating gate Analog memory cell
Patent No: 8,436,413
Date: 0-0-2014

- **Inventors:** Vijay Natarajan.
Title: In-place display of sensory data
Patent No: US Patent 8641617
Date: 0-0-2014

- **Inventors:** S.Bhatnagar
Title: Packet retransmission optimization in wireless network
Patent No: US patent # 8,730,82
Date: 20-5-2014

- **Inventors:** S shayan, Yiming Chen
Title: Methods and devices for joint two-dimensional self-iterating equalization and detection
Patent No: 8,760,782
Date: 0-6-2014

- **Inventors:** S shayan, Anantha Raman Krishnan, Kent Anderson and Shafa Dahandeh
Title: Data storage device tracking log-likelihood ratio for a decoder based on past performance
Patent No: 8,856,615
Date: 0-10-2014

- **Inventors:** S shayan, Sivagnanam Parthasarathy and Sudha Thipparthi
Title: Constrained on-the-fly interleaver address generation
Patent No: 8,625,220
Date: 0-1-2014

- **Inventors:** Satya Sudhakar Yedlapalli, K.V.S. Hari
Title: DETERMINING SPECTRAL SAMPLES OF A FINITE LENGTH SEQUENCE AT NON-UNIFORMLY SPACED FREQUENCIES
Patent No: US patent 8594167
Date: 26-11-2013

- **Inventors:** Malati Hegde, S.V.R.Anand, Gopi Krishna Garge, Seema K., Baba Prasad G., Mohammad Rafiq, Shrikant Hallur
Title: Method and System for Seamless Session Continuity of Real-Time Multimedia Applications Across Heterogeneous Networks
Patent No: filed
Date: 23-10-2013

- **Inventors:** G. Banerjee, M. Behera and K. Barnett
Title: Methods and Apparatus for providing a Built in Self Test
Patent No: US Patent No. 858975
Date: 19-11-2013

- **Inventors:** Chockalingam; Ananthanarayanan; Rajan; Balaji Sundar; Mohammed; Saif Khan
Title: Method to detect data transmitted by multiple antennas
Patent No: US Patent No: US 8,6
Date: 10-12-2013

- **Inventors:** Chockalingam; Ananthanarayanan; Rajan; Balaji Sundar; Srinidhi Nagaraja; Mohammed; Saif Khan.
Title: Techniques for decoding transmitted signals using Reactive Taboo Searches (RTS);
Patent No: US Patent No: US 8,5
Date: 6-8-2013

- **Inventors:** Navakanta Bhat and Palash Basu,
Title: "GAS SENSOR ARRAY WITH IN PLANE HEATER AND SHADOW DEPOSITION", Indian Provisional Patent filed
Patent No: 801/CHE/2013
Date: 0-0-2013

- **Inventors:** Navakanta Bhat and Palash Basu,
Title: "GAS SENSOR ARRAY ON PLASTIC WITH NANOGAP SENSOR", Indian Provisional Patent filed
Patent No: 800/CHE/2013
Date: 0-0-2013

- **Inventors:** Navakanta Bhat and Palash Basu,
Title: CMOS COMPATIBLE GAS SENSOR WITH ELECTROCHEMICALLY ACTIVE SUSPENDED NANOSTRUCTURE", Indian Provisional Patent filed
Patent No: 762/CHE/2013
Date: 0-0-2013

- **Inventors:** K. V. Rashmi, N. B. Shah and P. Vijay Kumar
Title: Distributed Storage System for Optimal Storage Space and Network Bandwidth Utilization and a Method Thereof
Patent No: Indian Provisional P
Date: 1-1-2013

- **Inventors:** R.Verma, S. Bhattacharya and S. Mahapatra

Title: A graphene based thermoelectric generator

Patent No: 3625

Date: 0-8-2013

- **Inventors:** S.Bhatnagar

Title: Approach for solving a constrained optimization problem

Patent No: US patent # 8,364,61

Date: 29-1-2013

- **Inventors:** S shayan, Yiming Chen

Title: Methods and devices for two-dimensional iterative multi-track based MAP detection

Patent No: 8,582,223

Date: 0-11-2013

- **Inventors:** S shayan

Title: Encoding apparatus, system and method using LDPC codes

Patent No: 8,397,125

Date: 0-3-2013

- **Inventors:** Shayan G. Srinivasa, Harish Seshadri and Praveen Nandakumar

Title: Machine based music synthesis

Patent No: Patent filed Indian

Date: 0-12-2013

- **Inventors:** M. M. Varma, N. Kumawat

Title: Differential Diffractive Interference Sensor

Patent No: 4852/CHE/2013

Date: 0-0-2013

- **Inventors:** M. M. Varma, A. M. Raichur, G. R. Prashanth, V. S. Goudar

Title: An Appartus For Enhanced Flourescence Detection

Patent No: 2333/CHE/2013

Date: 0-0-2013

- **Inventors:** Chockalingam; Ananthanarayanan; Rajan; Balaji Sundar; Mohammed; Saif Khan.

Title: Device and method for precoding vectors in a communication system,

Patent No: US Patent No: US 8,3

Date: 27-11-2012

- **Inventors:** Pavan Srinath K. and B. Sundar Rajan.

Title: Data Transmission in Wireless Communication System.

Patent No: US Patent No: US 8,2

Date: 2-10-2012

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- **Inventors:** Chockalingam; Ananthanarayanan; Rajan; Balaji Sundar; Vardhan; Kalepalli Vishnu; Mohammed; Saif Khan.
Title: Method to detect data transmitted from multiple antennas and systems thereof,
Patent No: US Patent No: US 8,1
Date: 14-2-2012
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- **Inventors:** G. Susinder Rajan and B. Sundar Rajan
Title: Leveraging coherent distributed space-time codes for non-coherent communication in relay networks via training,
Patent No: US Patent No: US 8,0
Date: 3-1-2012
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- **Inventors:** Pavan Srinath K. and B. Sundar Rajan
Title: Data Transmission in Wireless Communication System
Patent No: US Patent No: US 8,1
Date: 7-2-2012
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- **Inventors:** G.Mergen, N.Kasturi, P.Subrahmanya, and R.Sundaresan
Title: Equalizer in a wireless communication system
Patent No: USPTO 8160128
Date: 17-4-2012
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- **Inventors:** Anurag Kumar, SVR Anand, Arun Augustine, Abhijit Bhattacharya, Rohan KrishnaKumar, Sanjay Motilal Ladwa, Aniruddha Mallya, B.S.Manjula, Akhila Rao, Deeksha G. Rao Sahib, M.Shyam, Rachit Srivatsava, Jerry Daniel, Senju Thomas Panicker, Lijo Thomas
Title: Method and system for Designing a Multi - Hop Wireless Sensor Network
Patent No: Filed
Date: 4-1-2012
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- **Inventors:** N. Pavillon, C. S. Seelamantula, C. Depeursinge, and M. Unser
Title: Method and apparatus for enhanced spatial bandwidth wavefronts reconstructed from digital interferograms or holograms
Patent No: US Patent 2012011670
Date: 10-5-2012
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- **Inventors:** S.Bhatnagar
Title: Resource allocation in wireless communication network
Patent No: US patent # 8,213,30
Date: 3-7-2012
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- **Inventors:** S shayan , Mustafa Kaynak, Stefano Valle and Sivagnanam Parthasarathy
Title: Adaptive data dependent noise prediction.
Patent No: 8,290,102
Date: 0-0-2012
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- **Inventors:** S shayan , Xinde Hu, Sivagnanam Parthasarathy, Anthony Weathers and Richard Barndt
Title: Interlaced iterative system design for 1K-byte block with 512 byte LDPC code words
Patent No: 8,255,768,
Date: 0-0-2012

- **Inventors:** P.Subrahmanya, I.Kang, J.Fei, and R.Sundaresan
Title: Fractionally-spaced equalizers for spread spectrum wireless communication
Patent No: USPTO 8064552
Date: 22-11-2011

- **Inventors:** G.Mergen, N.Kasturi, P.Subrahmanya, and R.Sundaresan
Title: Equalizer for a receiver in a wireless communication system
Patent No: USPTO 7929597
Date: 19-4-2011

- **Inventors:** T. Kasar and A. G. Ramakrishnan
Title: A method to extract and align text of an image captured and a system thereof.
Patent No: 109/CHE/2011; Filed
Date: 0-0-2011

- **Inventors:** Eric Benedict, V. John
Title: Interconnection switching system and method for connecting a distributed energy resource to an electrical power system
Patent No: US 8,331,071, WO 201
Date: 1-3-2011

- **Inventors:** S shayan , Nicholas Richardson and Xinde Hu
Title: Channel constrained code aware interleavers.
Patent No: 8,055,973
Date: 0-0-2011

- **Inventors:** Satya Sudhakar Yedlapalli and K. V. S. Hari
Title: Devices and Methods for Filtering Discrete Time Signals Using a Notch Filter
Patent No: filed
Date: 20-8-2010

- **Inventors:** Neelesh B. Mehta
Title: Methods and Systems For Real-Time Monitoring of Environments
Patent No: Filed w. India PTO
Date: 3-9-2010

- **Inventors:** K.J. Vinoy and Gijo Agustian
Title: An Ultrawideband (UWB) antenna
Patent No: Indian Patent No. 03

Date: 13-12-2010

- **Inventors:** Manoj Varma
Title: All polymer optical sensors for low cost biosensing
Patent No: Being filed
Date: 0-12-2010

- **Inventors:** Gaurab Banerjee and Manas Behera
Title: Signal generator for a built-in self test
Patent No: Filed
Date: 1-12-2010

- **Inventors:** K. V. Rashmi, N. B. Shah and P. Vijay Kumar,
Title: “Distributed Storage System for Optimal Storage Space and Network Bandwidth Utilization and a Method Thereof,”
Patent No: Indian Provisional P
Date: 21-5-2010

- **Inventors:** Vummintala Shashidhar, Ramanath Sreenath, and Balaji Sundar Raja
Title: Method and system for determining a Log-Likelihood Ratio (LLR) corresponding to each bit of a symbol
Patent No: United States Patent
Date: 23-3-2010

- **Inventors:** N. Bhat, K N Bhat, V T Arun
Title: “ Modification of Fermi-level pinning behavior at the Germanium surface through sulfur passivation treatment”
Patent No: Indian Patent filed
Date: 0-9-2010

- **Inventors:** Navakanta Bhat, K.N.Bhat and Arun V. T.
Title: A METHOD FOR PASSIVATING SEMICONDUCTOR-METAL INTERFACE
Patent No: PCT0976.
Date: 0-4-2010

- **Inventors:** Harshavardhan, S. and T.V. Sreenivas, S. Chandrasekhar
Title: A MULTIMODAL DENSITY FUNCTION ESTIMATION APPROACH TO FORMANT ESTIMATION
Patent No: submitted to M/s IV,
Date: 0-8-2010

- **Inventors:** Harshavardhan, S. and T.V. Sreenivas
Title: “ROBUST MIXTURE MODELING USING T-DISTRIBUTION: APPLICATION TO SPEAKER-ID
Patent No: submitted to M/s IV,
Date: 0-8-2010

- **Inventors:** Ajay, S. and T.V. Sreenivas,

Title: "Multi-channel Iterative Dereverberation based on Codebook Constrained iterative Wiener filter

Patent No: submitted to M/s IV,

Date: 0-8-2010

- **Inventors:** Tarun, K. and T.V. Sreenivas

Title: "Multi Sensor Compressive Sensing of Reverberant Speech,

Patent No: submitted to M/s IV,

Date: 0-8-2010

- **Inventors:** Nadir Cazi and TV Sreenivas

Title: Improved Binaural speech enhancement"

Patent No: US patent + Indian p

Date: 0-1-2010

- **Inventors:** X. Wang, D. D. Nolte, M. Varma, B. Weichel, T. Norwood, F. Sayegh, M. Zhao

Title: System with extended range of molecular sensing through integrated multi-modal data acquisition

Patent No: U.S. Pat. No. 7,659,

Date: 0-0-2010

- **Inventors:** Malati Hegde, Pavan Kumar, K. R. Vasudev, S. V. R. Anand, Arpita Agarwal, Sneha Aggarwal, Arpit Gupta, Sowmya N. Nambissan, Sumankumar Panchal, Anurag Kumar, Joy Kuri

Title: Methods and Apparatus for ADWISER: An Approach for Internet Access Bandwidth and WLAN Performance Management

Patent No: Filed

Date: 29-12-2010

- **Inventors:** Abu Sajana R., Ramanathan Subramanian, P. Vijay Kumar, Syam Krishnan, Bharadwaj Amrutur, Jeena Sebastian, Malati Hegde, S. V. R. Anand

Title: A Low-Complexity Algorithm for Intrusion Detection in a PIR-Based Wireless Sensor Network

Patent No: filed

Date: 0-12-2010

- **Inventors:** Malati Hegde, Pavan Kumar, K. R. Vasudev, S. V. R. Anand, Anurag Kumar, Joy kuri, Arpita Agarwal, Sneha Aggarwal, Arpit Gupta, Sowmya N Nam- bissan, Sumankumar Panchal

Title: Methods and Apparatus for ADWISER: An Approach for Internet Access Bandwidth and WLAN Performance Management

Patent No: IP13348, 2713/DEL/20

Date: 29-12-2010

- **Inventors:** C.S. Seelamantula and T.V. Sreenivas

Title: A suite of novel audio coding algorithms

Patent No: Provisional patent f

Date: 0-1-2010

- **Inventors:** C. S. Seelamantula
Title: Improved level-crossing technique for analog signals in multilevel analog-to-digital converters
Patent No: (filed)
Date: 0-0-2010

- **Inventors:** Suresh Sundaram and A. G. Ramakrishnan
Title: Attention feedback based robust segmentation of online handwritten words.
Patent No: 03974/CHE/2010; File
Date: 0-0-2010

- **Inventors:** Shayan G. Srinivasa and Sivagnanam Parthasarthy
Title: Defect detection and correction in media recording channels using parity check codes
Patent No: Patent Filed USPTO
Date: 0-8-2010

- **Inventors:** Vummintala Shashidhar, Arogyaswami Paulraj, Erik David Lindskog, Balaji Sundar Rajan, Djordje Tujkovic
Title: Method and system for rate-2 transmission
Patent No: United States Patent
Date: 13-1-2009

- **Inventors:** Neelesh B. Mehta
Title: Transmit Power Scaling Method and System to Detect Occurrences Using Geographically Distributed Sensors
Patent No: Filed w. India PTO
Date: 1-9-2009

- **Inventors:** Neelesh B. Mehta, Vinod Sharma, Gaurav Bansal
Title: Queued Cooperative Wireless Networks Configuration
Patent No: Filed w. India PTO
Date: 1-9-2009

- **Inventors:** B. Amrutur, N. Bhat, S. Dwivedi
Title: “Adaptive Digital Baseband Receiver
Patent No: 2596/CHE/2009
Date: 0-10-2009

- **Inventors:** B. Amrutur, N. Bhat,
Title: “Large Flexible Surfaces with an Embedded, Dense, Sensing and Actuation Network for Bio-Electronic applications”
Patent No: Indian and US Paten
Date: 0-0-2009

- **Inventors:** N. Bhat, K N Bhat, V T Arun,
Title: “ Modification of Fermi-level pinning behavior at the Germanium surface through sulfur passivation treatment”
Patent No: Indian patent field

Date: 0-0-2009

- **Inventors:** Abu Sajana R., Ramanathan Subramanian, P. Vijay Kumar, Syam Krishnan, Bharadwaj Amrutur, Jeena Sebastian, Malati Hegde, S. V. R. Anand,

Title: "A Low-Complexity Algorithm for Intrusion Detection in a PIR-Based Wireless Sensor Network,

Patent No: Provisional Indian p

Date: 4-12-2009

- **Inventors:** P. V. Kumar, R. Omrani, J. Touch, A. Willner, P. Saghari,,

Title: "Code cycle modulation in optical code division multiple access systems,"

Patent No: U.S. Patent 7,616,61

Date: 10-11-2009

- **Inventors:** Vummintala Shashidhar, Arogyaswami Paulraj, Erik David Lindskog, Balaji Sundar Rajan, Djordje Tujkovic

Title: Method and system for maximum transmit diversity

Patent No: United States Patent

Date: 8-9-2009

- **Inventors:** Nishanth U Nair and TV Sreenivas

Title: "Multi-pattern Viterbi algorithm for joint decoding of speech patterns

Patent No: US patent + Indian p

Date: 0-9-2009

- **Inventors:** Prasanna U R and L Umanand

Title: Flow measurement system and a method

Patent No: 2112

Date: 0-8-2009

- **Inventors:** Sudhin Roy, L.Umanand

Title: A generic integrated magnetic circuit for quality AC power supply and method

Patent No: 2132

Date: 31-3-2009

- **Inventors:** Subba Reddy B and Udaya Kumar

Title: An Insulator comprising field reduction electrodes to improve pollution flashover strength and methods thereof

Patent No: Application No.: 923

Date: 21-4-2009

- **Inventors:** Vijay Natarajan

Title: A method for in-place visualization of sensed data and a system thereof

Patent No: Indian Patent Offic

Date: 2-4-2009

- **Inventors:** Xinde Hu, Shayan G. Srinivasa, Anthony Weathers and Richard Barndt
Title: Trapping set based LDPC code design
Patent No: Patent Filed USPTO
Date: 0-12-2009

- **Inventors:** N Bhat, R. Pratap, Thejas
Title: A SUB-THRESHOLD FORCED PLATE FET SENSOR FOR SENSING INERTIAL, DISPLACEMENT, A METHOD AND SYSTEM THEREOF
Patent No: 00907/CHE/2008
Date: 12-9-2008

- **Inventors:** N Bhat, B. Jayaraman, S.A.Shivashankar, R. Pratap
Title: A SUB-THRESHOLD CAP FET SENSOR FOR SENSING ANALYTE, A METHOD AND SYSTEM THEREOF
Patent No: 00906/CHE/2008
Date: 12-9-2008

- **Inventors:** N. Bhat, R. Pratap, C. Malhi
Title: A SUB-THRESHOLD ELASTIC DEFLECTION FET SENSOR FOR SENSING PRESSURE/FORCE, A METHOD AND SYSTEM THEREOF
Patent No: 00929/CHE/2008
Date: 12-9-2008

- **Inventors:** Vummintala Shashidhar, Arogyaswami Paulraj, Erik David Lindskog, Balaji Sundar Rajan, Djordje Tujkovic
Title: Method and system for maximum transmit diversity
Patent No: United States Patent
Date: 11-11-2008

- **Inventors:** Vummintala Shashidhar, Arogyaswami Paulraj, Erik David Lindskog, Balaji Sundar Rajan, Djordje Tujkovic
Title: Method and system for rate-2 transmission
Patent No: United States Patent
Date: 16-12-2008

- **Inventors:** David D. Nolte, Manoj Varma, Fred E. Regnier
Title: Laser scanning interferometric surface metrology
Patent No: U.S. Pat. No. 7,405,
Date: 0-0-2008

- **Inventors:** Malati Hegde, Pavan Kumar, K. R. Vasudev, S. V. R. Anand, Anurag Kumar, and Joy Kuri
Title: A Centralized Wireless Manager (WiM) for Performance Management Of IEEE 802.11 and a Method thereof
Patent No: Filed
Date: 19-12-2008

- **Inventors:** Malati Hegde, Pavan Kumar, K. R Vasudev, S. V. R. Anand, Anurag Ku- mar and Joy kuri

Title: A CENTRALIZED WIRELESS MANAGER (WiM) FOR PERFORMANCE MANAGEMENT OF IEEE 802.11

Patent No: IP10607 2898/DEL/200

Date: 19-12-2008

- **Inventors:** C.S. Seelamantula and T.V. Sreenivas

Title: Efficient zero-order suppression in digital holographic microscopy

Patent No: Provisional patent f

Date: 0-0-2008

- **Inventors:** Daniel Costin, V. John

Title: Permanent magnet rotor for a direct drive generator or a low speed motor

Patent No: US 7,355,309;

Date: 1-4-2008

- **Inventors:** J.Sidi and R.Sundaresan

Title: Log-likelihood ratio (LLR) computation using piece-wise linear approximation of LLR functions

Patent No: filed

Date: 13-3-2007

- **Inventors:** Navakanta Bhat and Rakesh Gnana David.J

Title: An adaptive keeper circuit to control domino logic dynamic circuits using rate sensing technique.

Patent No: 01130/CHE/2007

Date: 0-0-2007

- **Inventors:** A. Chockalingam, B. Sundar Rajan, K. Vishnu Vardhan, and Saif K. Mohammed

Title: method to detect data from multiple antennas and system thereof

Patent No: filed

Date: 0-8-2007

- **Inventors:** M R Bhavani Shankar and K V S Hari

Title: Reduced Complexity Receivers for Zero-padded OFDM systems

Patent No: granted

Date: 0-0-2007

- **Inventors:** P. Vijay Kumar and M. Anand,

Title: A Novel Signalling Scheme for CDMA Systems,

Patent No: Indian Patent filed

Date: 25-9-2007

- **Inventors:** C.S. Seelamantula and M. Unser

Title: Novel technique for eliminating autocorrelation artifacts in frequency-domain optical-coherence tomography and related interferometric signals

Patent No: Provisional patent f

Date: 0-0-2007

- **Inventors:** Santanu Mahapatra and Nayan Patel
Title: An n-type tunnel FET device with strained SiGe layer at source
Patent No: 02057
Date: 0-9-2007

- **Inventors:** Arvind Keerthi, Madabasi Govindarajan, P. Vijay Kumar, John Choma and Abhijit Shanbhag,
Title: "Pre-Distortion Apparatus,"
Patent No: Sl. No. 11/484008 US
Date: 7-7-2006

- **Inventors:** S. Chandra Sekhar and TV Sreenivas,
Title: "TARANG Audio coder,"
Patent No: Indian patent for Es
Date: 0-8-2006

- **Inventors:** A.Sendonaris and R.Sundaresan
Title: Method and apparatus for estimating channel characteristics using pilot and non-pilot data
Patent No: USPTO 6947475
Date: 20-9-2005

- **Inventors:** D.Shui and R.Sundaresan
Title: Turbo decoder with multiple scale selections
Patent No: USPTO 6885711
Date: 26-4-2005

- **Inventors:** V G S Prasad and K V S Hari
Title: Interleaved OFDM System
Patent No: 083
Date: 0-0-2005

- **Inventors:** Anurag Kumar, Santhosh P Abraham, Greg M Bernstein, Jeffrey T Gullicksen, Gurpreet S Chhabra
Title: Apparatus and Method for Providing Max-Min Fair Rate Control of ABR Sessions
Patent No: USA Patent No. 6,597
Date: 0-7-2003

- **Inventors:** V.K. Varadan, K.J. Vinoy, J.A. Kollakompil, and V.V. Varadan
Title: Miniaturized conformal wideband fractal antennas on high dielectric substrates and chiral layers
Patent No: US Patent no. 6,525,
Date: 25-2-2003

- **Inventors:** P. Vijay Kumar and Marcus H. Pendergrass

Title: ``A method and an apparatus for generating a large number of codes having desirable correlation properties,"

Patent No: 28549-176566

Date: 0-11-2001

- **Inventors:** P.V.Kumar, K.Swaminathan, P.Gupta and K.Ganesan

Title: ``High Performance Error Control Coding in Channel Encoders and Decoders,"

Patent No: 5,666,370

Date: 9-9-1997