



RV College of Engineering®



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IP Coordination Cell-Activities



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Patent portfolio management at RVCE involves the strategic handling of intellectual property (IP) assets, specifically patents, that arise from research and innovation activities within the institution. This process is crucial for maximizing the value of intellectual property, protecting innovations, and fostering a culture of innovation within the academic community. Here are key aspects of patent portfolio management RV College of Engineering:

Objectives

- › To provide a superior environment to the faculty, staff and students of the Institute for creation, protection, and commercialization of intellectual property and to have an equitable eco system for promotion of innovation in research.
- › To create awareness on IPR through conducting seminars, conferences, invited talks and lectures, and training programs among the academic community.
- › To encourage stake holders for research and a spirit of inquiry thereby generating new knowledge.
- › To facilitate the transfer of knowledge and technology to intended users for promotion and utilization of such resources for the larger benefit of the society.
- › To provide an equitable distribution of economic gains resulting from new intellectual property among the various stakeholders such as developer, author or inventor (the originator), the Institute and sponsors (wherever applicable).

The Team



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Mr. R.B. Ravivarma,
System Administrator, RV
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Process

Identification and Evaluation:

Invention Disclosure:

- › Established a systematic process for researchers to disclose their inventions.
- › Encourage faculty and students to report potentially patentable inventions promptly.

Preliminary Evaluation:

- › Conduct a preliminary assessment of the patentability with Prior Art Search by professionals in the domain.

Patent Filing:

Decision-Making:

- › Decide on the jurisdictions for filing patents, considering the global nature of innovation.

Collaboration:

- › Foster collaboration between inventors, technology transfer

Portfolio Development:

Diversification:

- › Build a diverse patent portfolio covering various technologies and applications.
- › Consider the institution's strengths and focus areas when developing the portfolio.

Commercialization:

Licensing and Technology Transfer:

- › Develop a licensing strategy to transfer patented technologies to industry partners.
- › Negotiate licensing agreements that balance the interests of the institution and the licensee.

Spin-off Ventures:

- › Explore opportunities for creating spin-off companies based on patented technologies.
- › Facilitate the establishment of start-ups by providing support and resources.



Education and Training:

Awareness Programs:

- › Conduct workshops and training sessions to educate researchers about the importance of intellectual property.
- › Raise awareness about the commercialization process and the role of patents.

Incentives:

- › Establish incentive programs to reward researchers for contributing to the creation of valuable intellectual property.

Budgeting and Resources:

Financial Planning:

- › Allocate resources for patent filing, maintenance, and enforcement activities.
- › Develop a budget that supports the institution's overall IP Strategy.

Outcomes



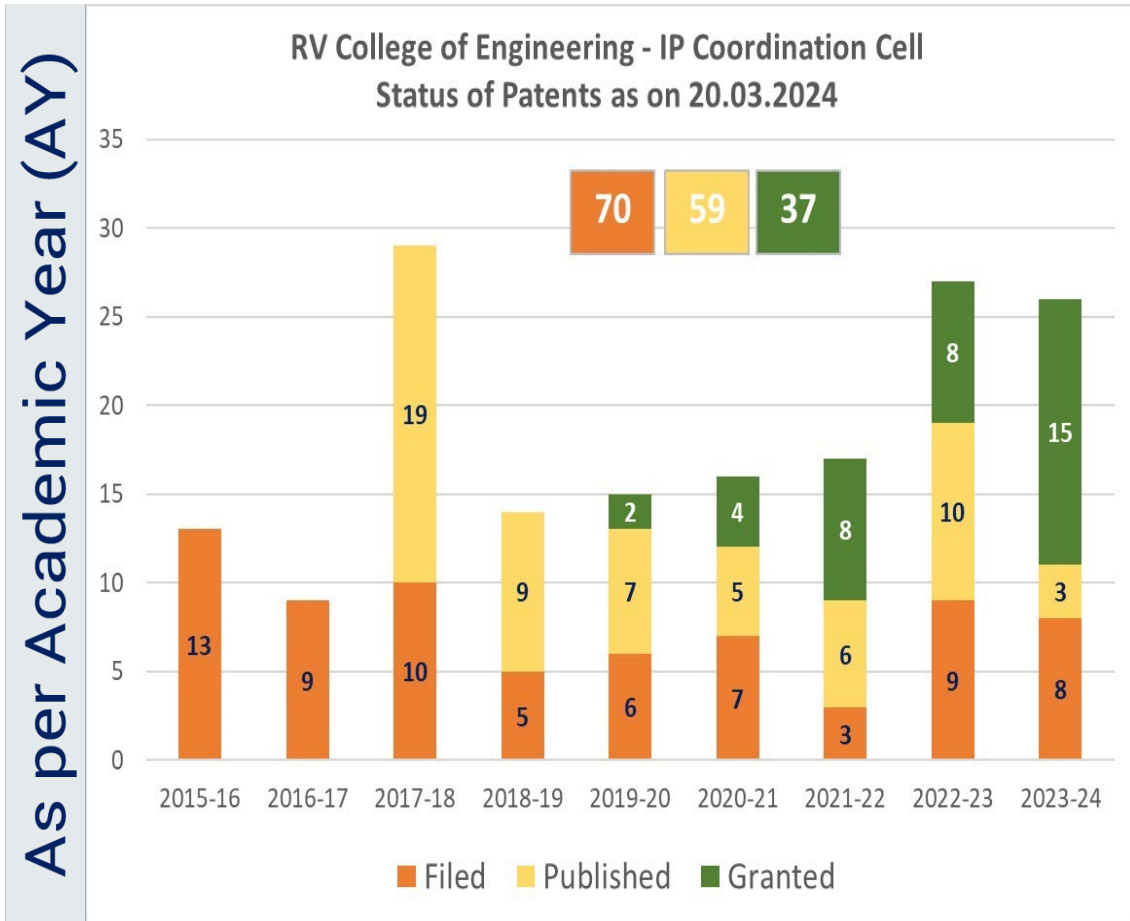
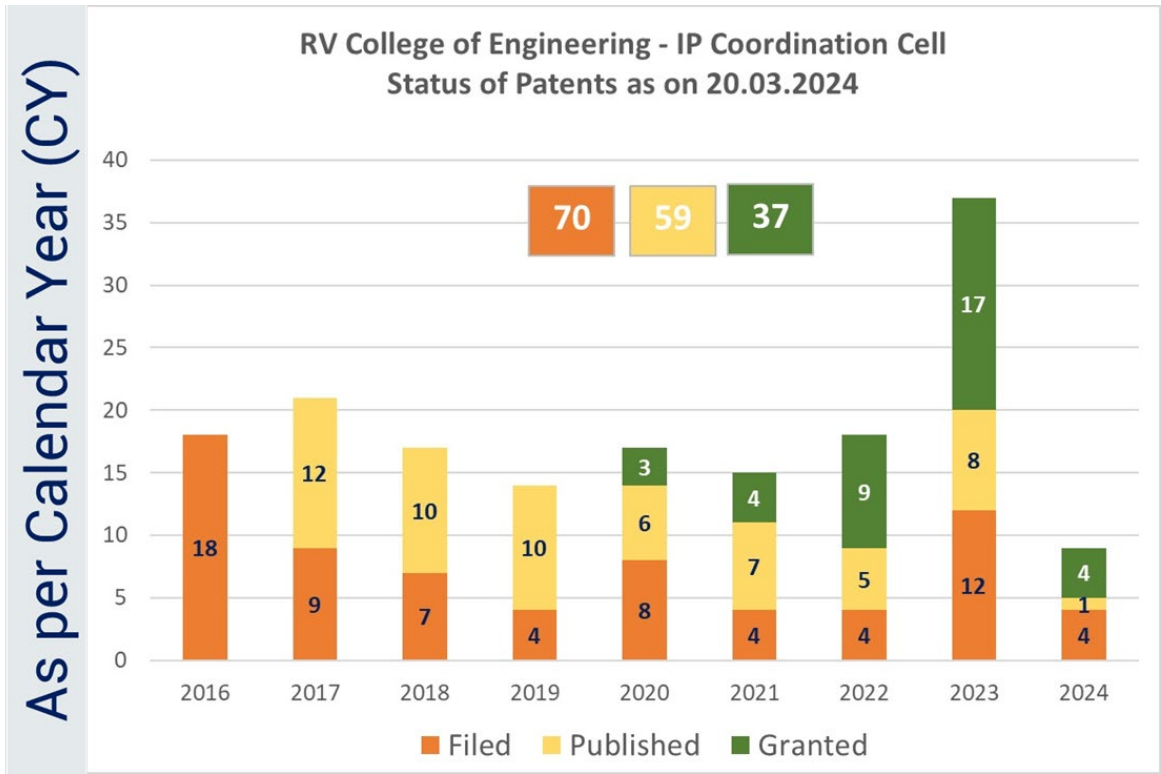
Applications in
Filed State



Applications in
Published State



Applications in
Granted State



**Domain: Automobile [07]**

SL	Patent Application No.	Patent #	Invention Title	Inventors	Date of Filing	Date of Grant
1	201941009857	397516	Fuel Efficient Heavy-Duty Vehicles Adaptable to Both Agricultural and on Road Applications	1. R Jayapal 2. Abhishek P B 3. Srinidhi H S 4. Rukmini A G 5. Vinay B Y	14-03-2019	24-05-2022
2	201741032708	436273	Tractor Mounted Ariel Work Platform for Arecanut Farming	1. Shanmukha Nagaraj 2. R. Sridhar 3. H. Sandeep Krishna 4. G.Y. Abhishek Kudamala 5. Rama Mohan Reddy 6. Rahul R. Badenkall	15-09-2017	29-06-2023
3	201841017486	440514	Strut Integrated Wheel Hub Drive Assembly For Electric Vehicles	1. H.D. Gopalakrishna 2. RabindranathMukherjee 3. Varun V V 4. Mohd. Atiqh Ahmed 5. Tejas R Kulkarni	09-05-2018	26-07-2023
4	201641017221	454896	Single Motor Mechanical Power-Split Transmission for Hybrid Car	1. Shanmukha Nagaraj 2. Anshul Dhakar 3. Rishav Ranjan 4. Sindhu Srinath	18-05-2016	26-09-2023
5	201741041367	464590	A Portable Center Stand for a Two Wheeled Vehicle	1. K. Raghavan 2. D. Chethan 3. P. Siddaraju 4. S. Ranganna	20-11-2017	01-11-2023
6	201841019427	472765	A Field Control-Hybrid System	1. K Uma Rao 2. Ashad Farhan 3. Joy Chakraborty 4. Vishwanath TU	24-05-2018	24-11-2023
7	201641012936	501049	Solar Biogas Hybrid Refrigeration System	1. K.N. Subramanya 2. R.S. Kulkarni 3. U. Rashmi 4. D S Suhas 5. K S Vinay 6. S.Ravi Kiran	13-04-2016	19-01-2024

**Domain: Biotechnology [02]**

SL	Patent Application No.	Patent #	Invention Title	Inventors	Date of Filing	Date of Grant
1	201741044070	386034	Bioactive Thin Films for Food Packaging	1. Neeta Shivakumar 2. Pushpa Agrawal	08-12-2017	05-01-2022
2	201741011399	398942	Method and System for Producing Xylooligosaccharides from dried orange peels	1. Praveen Kumar Gupta 2. Pushpa Agrawal 3. Prabha Hegde	30-03-2017	10-06-2022

Domain: Chemical [07]

SL	Patent Application No.	Patent #	Invention Title	Inventors	Date of Filing	Date of Grant
1	201741030082	329796	Municipal Solid Waste Segregator for Separation of Non-Biodegradables from Biodegradable Solid Waste	1. M.A.L. Antony Raj 2. Prof. Anupama V. Joshi 3. Aishwarya Pantula 4. Manasvi 5. Hemant Paradkar 6. R.M. Nivedha	24-08-2017	21-01-2020
2	201841013768	338004	Method and System to develop a Polymer-Hydrogel-Metal Oxide Composite based sensor to detect and quantify Hydrogen Gas	1. Ujwal Shreenag M 2. MAL Antony Raj 3. Shripathi Ramakrishnan 4. Maitri Uppaluri 5. A. R. Phani	11-04-2018	05-06-2020
3	201841046270	402421	Extraction of Hydroxymethylfurfural (HMF) from Organic Waste	1. Vinutha Moses 2. Sumedha Bhat 3. Snehil Kumar B 4. Akshay C.B 5. Rishil Rai	07-12-2018	28-07-2022
4	202041024611	407395	Fluid Jacketed Temperature Swing Adsorption System for Carbon Dioxide Capture using Graphene	1. Basavaraja R J 2. Siddhant Gupta 3. Siddarth Achar 4. Shrilakshmi Bonageri 5. Atul Menon	11-06-2020	22-09-2022
5	202141015076	461359	A Method and System to enhance the properties of Cementitious Product	1. Ujwal Shreenag Meda 2. Dr. Radhakrishna 3. Sachin K C	31-03-2021	23-10-2023

**Domain: Chemical [07]**

SL	Patent Application No.	Patent #	Invention Title	Inventors	Date of Filing	Date of Grant
6	202041010158	480180	Efficient Adsorber cum Mufler	1. MAL Antony Raj 2. Pratham Kumar N 3. Raghav Raja 4. Ros Theres Koikkara 5. Ms. Kalpitha M V	09-03-2020	11-12-2023
7	201641012578	480905	Method & Sensor to Detect Hydrogen Gas at ambient conditions	1. Ujwal Shreenag Meda 2. Akshay Kulkarni 3. Abhinav Baj 4. Aditya Kulal 5. Karthik SS	11-04-2016	12-12-2023

Domain: Civil [05]

SL	Patent Application No.	Patent #	Invention Title	Inventors	Date of Filing	Date of Grant
1	201641027374	354719	Waste Plastic Incorporated Fiber Reinforced Polymer Bars	1. B.C. Udayashankar 2. K. Natarajan 3. T. Raghavendra 4. Jawad Fayaz 5. C.Y.Adarsha	10-08-2016	29-12-2020
2	201641012935	399515	Controlled low strength material (CLSM) composition for construction and maintenance of pavements	1. T. Raghavendra 2. B.C. Udayashankar 3. Y.H. Siddanagouda	13-04-2016	20-06-2022
3	202041024612	402195	Water Retention Agent for Soil	1. Vinutha Moses 2. Rohit Kumar 3. Niveditha Mohan 4. Ajay Melrit D'silva 5. Pramada Tirumala	11-06-2020	27-07-2022
4	201741039721	445427	Stabilization of the Earth for Construction with a Stabilizer	1. M.S. Nagakumar 2. Sundaresha Rao 3. C.P. Pradeep	01-11-2017	17-08-2023
5	201641019570	446620	Method & System for preparing a Plasticizer from Rain Tree Pods.	1. Ravindra R 2. Raviraj Kusanur 3. Vinutha Bai N 4. Bhagyashree F Katageri 5. Akhil Infant 6. Ankit Sharma	07-06-2016	23-08-2023

**Domain: Communication [02]**

SL	Patent Application No.	Patent #	Invention Title	Inventors	Date of Filing	Date of Grant
1	201641015450	472488	Method and Device for tracking an object	1. T.P. Mithun 2. Vishesh Vinod 3. Ishwarya Srinivasan 4. B.A. Pracheta	04-05-2016	23-11-2023
2	201741011400	526438	Method and System to Estimate Angle of Arrival for a Smart Array Antenna.	1. S. Ravishankar 2. K.S. Shushrutha 3. A. Mahesh	30-03-2017	14-03-2024

Domain: Hardware/Software [06]

SL	Patent Application No.	Patent #	Invention Title	Inventors	Date of Filing	Date of Grant
1	202041052977	370565	A High-Speed Low Power Ternary Content Addressable memory Device	1. Shylashree N 2. Uma B V 3. Shenoy Prasad 4. Neelnoor Praveena	04-12-2020	29-06-2021
2	202041056998	376436	A handheld Hidden Camera Detecting System	1. Shylashree N 2. Uma B V 3. Hassan M Supritha 4. Deshpande A Abhay	29-12-2020	03-09-2021
3	201641010977	420973	Gesture Recognition System and device with Sign Language Translation	1. Kendagannaswamy Swamy 2. Ansul Jain 3. Shraddha Raj 4. Vishwas R Katti 5. Dewank Saxena\	30-03-2016	08-02-2023
4	201941000753	423922	Method, System and Apparatus For Preventing Shoulder Surfing In Secure Electronic Transactions	1. Azra Nasreen 2. Shobha G 3. Poornanand Purushottam Naik	07-01-2019	03-03-2023
5	202041019199	436725	Agrosonic: An Autonomous Machine to Spread Fertilizers and Pesticides	1. Sharvani G S 2. Prashant Abbi 3. N.M. Nishant 4. Srijan Devnath	06-05-2020	30-06-2023
6	201741021773	486999	Method, System and Device for theft Lock	1. B.V. Uma 2. Anirudh Lanka 3. Uttaam Reddy	21-06-2017	21-12-2023

**Domain: Materials [03]**

SL	Patent Application No.	Patent #	Invention Title	Inventors	Date of Filing	Date of Grant
1	201641025548	366041	Geometry Induced Enhanced Gas Separation using Nano Porous Graphene	1. Tribikram Gupta	26-07-2016	04-05-2021
2	201641029478	509853	Multi-Walled Carbon Nanotube Reinforced Lead-free KNN Piezoelectric Ceramic Materials	1. M. Krishna 2. R. Nandini	30-08-2016	12-02-2024
3	202041041406	517659	Method for Optimization of one Dimensional nanostructured PVDF Doped MWCNT Nanofibre	1. Sudha R Karbari 2. Shiresha G 3. M Uttara Kumari	24-09-2020	29-02-2024

Domain: Medical [05]

SL	Patent Application No.	Patent #	Invention Title	Inventors	Date of Filing	Date of Grant
1	201641038766	359557	Flexible Artificial Basilar Epithelium	1. M. Uttarakumari 2. Rohini S. Hallikar 3. G. Shireesha	14-11-2016	25-02-2021
2	201641012577	399643	Novel Flexible Polymer based multi-layered sensor for pressure, displacement & Bio-medical sensing applications	1. J. Roopa 2. K.S. Geetha 3. B.S. Satyanarayana	11-04-2016	21-06-2022
3	201641005314	404533	Automatic Medication Dispensation and Alerting Unit	1. S.C. Prasanna Kumar 2. Anurag Shiva Prasad 3. ArpitAnanad Varshney 4. Niharika A Patel 5. K. Niranjana	16-02-2016	25-08-2022
4	201641026462	432493	System & Device for Detecting Human Fall	1. B.G. Sudarshan 2. A.P. Ashotosh	03-08-2016	22-05-2023
5	201741002255	480210	Method and Apparatus for Continuous Measurement of Blood Pressure	1. B.G. Sudarshan 2. R. Goverdhan	20-01-2017	11-12-2023



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Summary:

RV College of Engineering through its Patent Coordination Cell is effectively managing the patent portfolio with a holistic approach that integrates legal, business, and academic considerations. The Team plays a pivotal role in translating research and innovation into tangible benefits for the institution, its researchers, and the broader society.



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