

[Home \(http://ipindia.nic.in/index.htm\)](http://ipindia.nic.in/index.htm)
[About Us \(http://ipindia.nic.in/about-us.htm\)](http://ipindia.nic.in/about-us.htm)
[Who's Who \(http://ipindia.nic.in/whos-who-page.htm\)](http://ipindia.nic.in/whos-who-page.htm)  
[Policy & Programs \(http://ipindia.nic.in/policy-pages.htm\)](http://ipindia.nic.in/policy-pages.htm)
[Achievements \(http://ipindia.nic.in/achievements-page.htm\)](http://ipindia.nic.in/achievements-page.htm)  
[RTI \(http://ipindia.nic.in/right-to-information.htm\)](http://ipindia.nic.in/right-to-information.htm)
[Feedback \(https://ipindiaonline.gov.in/feedback\)](https://ipindiaonline.gov.in/feedback)
[Sitemap \(http://ipindia.nic.in/itemap.htm\)](http://ipindia.nic.in/itemap.htm)  
[Contact Us \(http://ipindia.nic.in/contact-us.htm\)](http://ipindia.nic.in/contact-us.htm)
[Help Line \(http://ipindia.nic.in/helpline-page.htm\)](http://ipindia.nic.in/helpline-page.htm)

[Skip to Main Content](#)

[\(http://ipindia.nic.in/index.htm\)](http://ipindia.nic.in/index.htm)

<http://ipindia.nic.in/inc>

## Patent Search

Invention Title	A POWER GRID HAVING MHD TOPPING CYCLE FOR ELECTRICITY PRODUCTION
Publication Number	20/2024
Publication Date	17/05/2024
Publication Type	INA
Application Number	202441035589
Application Filing Date	06/05/2024
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	ELECTRICAL
Classification (IPC)	H02J3/00, H02K44/08, H02K44/18

### Inventor

Name	Address	Country	Nat
Dr. G. Mirona	Assistant Professor in Mathematics, Malla Reddy Engineering college for Women, Maisammaguda, Dhulapally, Secunderabad, Telangana, India, Pincode: 500100	India	Indi
Mr. Ramakrishna Metri	Assistant Professor, Department of Mathematics, Government Engineering College, Talakal, Kukanooru (Tq), Koppala (Dist), Karnataka, India, Pincode: 583238	India	Indi
Dr. R. Balapriya	Professor, Saveetha School of Engineering, SIMATS Engineering, Thandalam, Chennai, Tamilnadu, India, Pincode: 602105	India	Indi
Dr. Animesh Kumar Sharma	Assistant Professor, Department of Mathematics, Faculty of Science and Technology, The ICFAI University, Raipur, Chhattisgarh, India, Pincode: 492001	India	Indi
Dr. Nellore Manoj Kumar	Independent Researcher, Founder & CEO, Infinite-Research Organization, B.O, 15-225, Gollapalem, Venkatagiri, Tirupati District, Andhra Pradesh, India, Pincode: 524132	India	Indi
Mr. Bijoy Tapan Mohan Nayak	Assistant Professor, Department of EE, GIET, Ghangapatna, Bhubaneswar, Odisha, India, Pincode: 752054	India	Indi
Dr. S. Devaraj	Assistant Professor, Department of Aeronautical Engineering, Institute of Aeronautical Engineering, Hyderabad, Telangana, India, 500043	India	Indi
Mr. V. Srinivasulu	Assistant Professor in Mathematics, Department of Science and Humanities, Malla Reddy Engineering College, (Autonomous)- Main Campus, Medchal, Hyderabad, Telangana, India, Pincode: 500043	India	Indi

### Applicant

Name	Address	Country	Nat
Dr. G. Mirona	Assistant Professor in Mathematics, Malla Reddy Engineering college for Women, Maisammaguda, Dhulapally, Secunderabad, Telangana, India, Pincode: 500100	India	Indi
Mr. Ramakrishna Metri	Assistant Professor, Department of Mathematics, Government Engineering College, Talakal, Kukanooru (Tq), Koppala (Dist), Karnataka, India, Pincode: 583238	India	Indi
Dr. R. Balapriya	Professor, Saveetha School of Engineering, SIMATS Engineering, Thandalam, Chennai, Tamilnadu, India, Pincode: 602105	India	Indi
Dr. Animesh Kumar Sharma	Assistant Professor, Department of Mathematics, Faculty of Science and Technology, The ICFAI University, Raipur, Chhattisgarh, India, Pincode: 492001	India	Indi
Dr. Nellore Manoj Kumar	Independent Researcher, Founder & CEO, Infinite-Research Organization, B.O, 15-225, Gollapalem, Venkatagiri, Tirupati District, Andhra Pradesh, India, Pincode: 524132	India	Indi
Mr. Bijoy Tapan Mohan Nayak	Assistant Professor, Department of EE, GIET, Ghangapatna, Bhubaneswar, Odisha, India, Pincode: 752054	India	Indi
Dr. S. Devaraj	Assistant Professor, Department of Aeronautical Engineering, Institute of Aeronautical Engineering, Hyderabad, Telangana, India, 500043	India	Indi
Mr. V. Srinivasulu	Assistant Professor in Mathematics, Department of Science and Humanities, Malla Reddy Engineering College, (Autonomous)-Main Campus, Medchal, Hyderabad, Telangana, India, Pincode: 500043	India	Indi

**Abstract:**

The proposed invention introduces an innovative approach to power generation by integrating Magnetohydrodynamics (MHD) topping cycles into conventional power grids. Through the strategic placement of MHD systems within existing power plants, additional energy is captured from waste heat, significantly enhancing overall efficiency and reducing environmental impact. This technology harnesses the principles of electromagnetism and fluid dynamics to directly convert fluid motion into electrical power, eliminating the need for traditional mechanical components and minimizing energy losses. The scalability and versatility of MHD technology enable its integration into various power generation systems, from large-scale utility plants to distributed energy networks. Furthermore, the environmental benefits of MHD topping cycles extend beyond reducing greenhouse gas emissions to include improvements in air quality and public health. Overall, the proposed invention represents a transformative step towards cleaner, more efficient energy production, with broad implications for sustainable development and economic growth.

**Complete Specification**

**Description:**The proposed system operates at the forefront of energy innovation, harnessing the principles of Magnetohydrodynamics (MHD) in a pioneering manner. Positioned within the field of advanced power generation, it blends the realms of physics, engineering, and sustainable energy solutions. By integrating MHD topping cycles into conventional power grids, it revolutionizes electricity production methodologies.

MHD technology leverages the interaction between magnetic fields and conductive fluids, unlocking a new avenue for efficient energy conversion. This interdisciplinary approach not only enhances power generation efficiency but also reduces environmental impact, marking a significant stride towards cleaner energy solutions. The system implementation holds promise for addressing pressing global energy challenges while fostering technological advancements.

At the heart of this innovation lies the fusion of traditional power grid infrastructure with cutting-edge MHD principles, enabling a seamless transition towards more sustainable energy practices. This forward-looking approach underscores the transformative potential of interdisciplinary research and development in the energy sector. Through its novel application of MHD topping cycles, the proposed system stands as a beacon of progress in the quest for efficient, eco-friendly electricity generation.

**Background of the proposed invention:**

The proposed invention of integrating Magnetohydrodynamics (MHD) topping cycles into power grids represents a significant advancement in the field of energy generation and sustainability. To understand its significance, we delve into the historical context and the evolution of power generation technologies.

Throughout history, humanity has continuously sought more efficient and reliable ways to harness energy for various purposes, from heating and lighting to powering machinery and industries. Early civilizations relied on basic forms of energy such as firewood and animal power. However, as societies progressed, so did the demand for more abundant and scalable energy sources.

[View Application Status](#)


Terms & conditions (<http://ipindia.gov.in/terms-conditions.htm>) Privacy Policy (<http://ipindia.gov.in/privacy-policy.htm>)

Copyright (<http://ipindia.gov.in/copyright.htm>) Hyperlinking Policy (<http://ipindia.gov.in/hyperlinking-policy.htm>)

Accessibility (<http://ipindia.gov.in/accessibility.htm>) Archive (<http://ipindia.gov.in/archive.htm>) Contact Us (<http://ipindia.gov.in/contact-us.htm>)

Help (<http://ipindia.gov.in/help.htm>)

Content Owned, updated and maintained by Intellectual Property India, All Rights Reserved.

Page last updated on: 26/06/2019