



A LANDSCAPE REPORT ON

DEFENSE TECHNOLOGIES



SYNOPSIS

The global defense sector is at a critical juncture, with technologies like AI, robotics, blockchain, IoT, and quantum computing reshaping security strategies. For India, modernizing defense capabilities is urgent to counter evolving threats. This report analyzes emerging technologies such as unmanned systems, hypersonic weapons, advanced materials, and AI in defense, highlighting their potential to enhance operational efficiency and national security. It also explores challenges in implementation and the need for indigenous innovation.

The insights are drawn from the Tech Talk event, "Emerging Technologies Shaping Modern Defence," organized by IP Bazzaar and RIPA, on January 24, 2025, in New Delhi. The event featured experts like Cmde. Manish Tripathi (Retd), Ex Deputy Asst. Chief of Integrated Defence Staff, Indian Navy; Mr. Sumit Chauhan, CEO, Datopic Technologies; Major General (Dr) Ashok Kumar (Retd), VSM, Director General, Centre for Joint Warefare Studies (CENJOWS); and Prof. Prabhat Ranjan, Vice Chancellor, D Y Patil International University, AVM Rajiva Ranjan VM (Retd), Ex Asst. Chief of Integrated Defence Staff, Indian Air Force; Cmde. (Dr.) Arun Pratap Golaya (Retd), VSM, Indian Navy; Brigadier Rajeev Ohri (Retd), VSM, Indian Army; and Mr. Vivek Venugopal, Executive Director, PwC, who discussed strategic collaborations, supply chain security, and the role of academia. Key topics included Alpowered systems, autonomous robotics, and blockchain for secure communication, emphasizing the need for a future-proof defense infrastructure.

The report concludes with a Tech Zone section, showcasing patented technologies available for licensing, offering opportunities for collaboration. It underscores the importance of academia-industry partnerships, government involvement, and R&D to address challenges like cybersecurity and skilled manpower. This report serves as a roadmap for stakeholders to leverage emerging technologies, ensuring India's defense readiness in a complex global landscape.

	01	Tech Talk
ر م	02	Discussion highlights
=	03	Suggestion for Academia
υ	04	Industry challenges requiring R&D
ر	05	Delegates of event
= >	06	Patent landscape report on "Emerging Technologies in Def-Tech"
ر	1 -77	 Underwater and Maritime Technologies Robotics and Swarm Technologies Advanced Armored Vehicles
-		Soldier Systems and Wearable TechnologiesSmall Arms and Precision Munitions
		 Mine Countermeasures and Explosive Detection Logistics and Supply Chain Technologies Advanced Medical Support Systems
		 Camouflage and Stealth Technologies Blockchain Technology Directed Energy Weapons
	Comp.	Unmanned and Autonomous System

- Artificial Intelligence (AI) in Defense
 Cybersecurity and Quantum Computer
- Cybersecurity and Quantum Computing
- Hypersonic Technology
- Advanced Materials and Manufacturing
- Smart Connectivity and Internet of Military Things

07 Tech Zone

• Patented Technologies available for licensing



Reaching beyond ...



Our Company

CMMi Level 5, ISO 9001:2015, ISO 27001:2013 and ISO 27701:2019 certified, Hughes Systique Corporation (HSC) is an award-winning Digital Engineering solutions and services company that specializes in providing complete end-to-end product engineering services ranging from technology & product consulting, architecture, development, managed services in the areas of Travel & Hospitality, Retail, Wireless and Networks, Cloud, Analytics and Security. HSC has its global headquarters in Rockville, MD, USA and India headquarters in Delhi/NCR with development centres in Gurgaon, Noida and Bengaluru, India with best-in-class domain experts, system architects, and engineering teams.

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TECH TALK

The Defence sector worldwide is at a critical juncture, where technological advancements are reshaping how nations approach security. For India, the need to modernize its defence capabilities has become increasingly urgent as global threats evolve. Advanced technologies like artificial intelligence (AI), robotics, blockchain, the Internet of Things (IoT), and quantum computing are not only transforming how defence forces operate but also influencing global military dynamics. As India aspires to become a technological powerhouse, addressing the challenges posed by these rapidly evolving technologies and adapting them for national security is paramount.

IP Bazzaar, in collaboration with Reinforce Intellectual Property Association (RIPA) and NEBULA, organized an impactful roundtable discussion titled "Emerging Technologies Shaping Modern Defence" on January 24, 2025, at the National Productivity Council, Lodhi Road, New Delhi. The roundtable brought together experts from various fields, including industry leaders, policymakers, defence officials, and academia, to discuss how India can harness the transformative power of emerging technologies to enhance its defence capabilities.

The Growing Role of Technology in Defence as geopolitical tensions rise and security challenges become more complex, India is looking to modernize its defence systems through technology-driven solutions. The introduction of Al-powered systems, autonomous robotics, blockchain for secure communication, and IoT for enhanced surveillance and real-time data collection is vital to ensuring India's military is prepared to respond to evolving threats. These advancements are not only focused on improving existing systems but are essential in building a future-proof defence infrastructure capable of withstanding cyber threats, geopolitical conflicts, and technological warfare.



Naveen Coomar moderated the Panel discussions with distinguished panellists with Panel I titled Strategy Field, the panellists included: Cmde. Manish Tripathi (Retd), Ex Deputy Asst. Chief of Integrated Defence Staff, Indian Navy; Sumit Chauhan, CEO, Datopic Technologies; Major General (Dr) Ashok Kumar (Retd), VSM, Director General, Centre for Joint Warefare Studies (CENJOWS); and Prof. Prabhat Ranjan, Vice Chancellor, D Y Patil International University. For Panel II titled Battlefield, the panellists included: AVM Rajiva Ranjan (Retd), Ex Asst. Chief of Integrated Defence Staff, Indian Air Force; Cmde. Arun Pratap Golaya (Retd), VSM, Indian Navy; Brigadier Rajeev Ohri (Retd), VSM, Indian Army; and Vivek Venugopal, Executive Director, PwC.

Prof. Prabath Ranjan's highlighted on India's challenges & opportunities such as: Heavy reliance on foreign defense technology, gaps in R&D and organizational inefficiencies to innovate. He also suggested that we should take into consideration ethical & policy frameworks such as regulating autonomous weapons to prevent conflicts, ensuring the ethical use of dual-use technologies like quantum computing, addressing job displacement driven by automation, and strengthening global security frameworks.

The discussion concluded with a shared commitment to accelerate efforts to modernize India's defence infrastructure through innovation and strategic collaboration, ensuring the country's security and resilience in the face of evolving global dynamics. An innovative presentations related to the Def tech domain were also presented during the event by Mr. Dhruv Patel, Managing Director of Shivay Fire & Life Safety (India) Pvt. Ltd, & Founder of VFF India and Polaris Solutions Limited, a Def tech company from Israel. Hence, together, through innovation, collaboration, and strategic planning, India can significantly enhance its defence capabilities and ensure national security in an evolving global landscape.



DISCUSSION HIGHLIGHTS

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SUGGESTIONS FOR ACADEMIA

The industry raised the demand for R&D in the defence technology domain and highlighted the following problem areas in which they wish to collaborate with the academic community:

- Academic institutions should focus on developing innovative technologies that enhance defence capabilities and infrastructure. Technologies such as AI, robotics, blockchain, IoT, and quantum computing can be leveraged to create advanced defence systems and solutions.
- Academic institutions should design user-friendly and effective defence systems that can be
 easily integrated into existing defence infrastructure. This can raise awareness about the
 importance of advanced technologies and create a stronger defence against emerging threats.
- Research how to build secure, transparent, and resilient defence supply chains that prevent
 vulnerabilities and ensure the integrity of defence systems. This involves enhancing traceability
 and accountability at every point in the supply chain.
- Academic institutions can contribute to the legal and regulatory framework by conducting research on existing defence policies, identifying gaps, and suggesting new policies that address the modern challenges of defence technology.
- Academic institutions should create collaborative research platforms where academia, industry, and government work together to tackle defence technology challenges from multiple perspectives, pooling expertise to create more comprehensive solutions.
- Academic institutions can develop Al-based models that help predict and mitigate defence risks by analyzing patterns and data across various domains. These models can also help prevent potential threats by identifying vulnerabilities.
- Develop academic programs and curricula that focus on teaching students the technologies and strategies needed to enhance defence capabilities and ensure national security, preparing the next generation of professionals for this critical sector.



INDUSTRY CHALLENGES REQUIRING R&D

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DELEGATES OF THE EVENT

- Commodore (Dr) R K Rana, IIT Delhi
- Dhruv Patel, Shivay Fire & Life Safety India
- Sharad J Taank, Kridi Enterprises Pvt Ltd
- Aryan Garg, Aska Equipment Pvt. Ltd.
- Arun Agarwal, Track Pack Innovations Pvt Ltd
- Chander S Jeena, Reconnaissance International Ltd
- Col Prem Rajpurohit, Veteran, Thar Mizu LLP
- Safaa Mehboob, Livingstone institute of future technologies
- Rakesh Kumar, HOPE
- Saumya Rawat, Johnnette technologies Pvt Ltd
- Mukesh Malik, G K Consulting
- Col. Virender Kumar, Ex Indian Army
- Priyank Garg, IAN Alpha Fund
- 14. Sanjeev Singh, PR Mantra
- Aishwarya Parikh, Strat News Global
- Pravash Dey, NEBULA Accelerator
- Vikas Kumar, Times of India
- 18. Sanket Rastogi, Times of India
- Vimal Kumar Varun, DSIR
- Rishabh Kaushik, Indyhaat
- Dr. Shashwat Sharad, Exom Biopharma
- Dr. Pankaj Kumar, NLU Assam
- Dr. K Prabhu, Sree Balaii Medical
- Praveen Sasidharan Nair, Deloitte

Organizing Team

Naveen Coomar

Keshay Kr. Jha

Vishnu Saini

Sana Saifi

Lalit Ambastha

Ankit Kumar

Gauray Tiwari Rahul Gupta

Shruthi Kaushik

Rahila Khan

Sidhatri Gauba

Banti Kumar

Dr. Medha Kaushik

Sarfaraz Afzal

Prashant K Haldar

Jyoti Bisht





TECH TALK



(A Roundtable Discussion)

EMERGING TECHNOLOGIES SHAPING MODERN DEFENCE

Friday, 24th January 2025 New Delhi

Industry Partners

Academia Partners























Association Partner

Knowledge Partner

Legacy Partner









COMMON MYTHS

Whether the recipes are available easily/free of cost?

If free whether this is ethical to copy? Can we make indigenous version without taking approval?

If recipes are already available, why start from scratch?

Can we file patent application for existing technology? Is it right to say a
"Problem Area" which already
developed and patented in
another jurisdiction?



CHALLENGE®

Design and Development of High-Power Microwave Weapon System capable of neutralizing swarm of Autonomous Aerial Vehicles (AAVs), Autonomous Combat Aerial Vehicles (ACAVs) and Autonomous Surface Vehicles (ASVs) at range of ≥ 5 km.

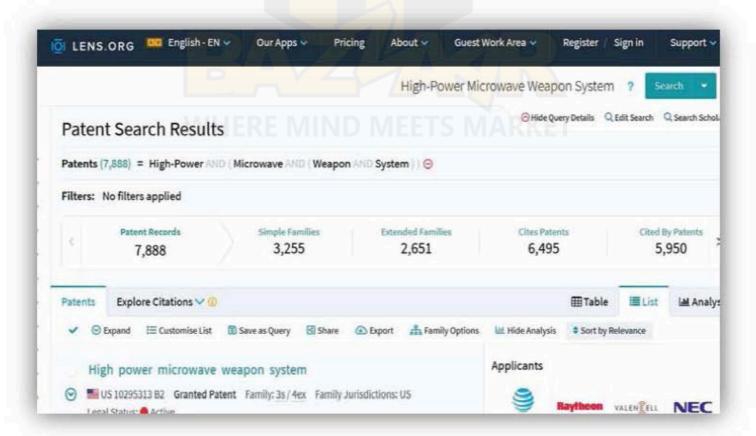
The High-Power Microwave weapon system should enable scalable power output, without significant change in architecture, thereby ensuring engagement at varying ranges.





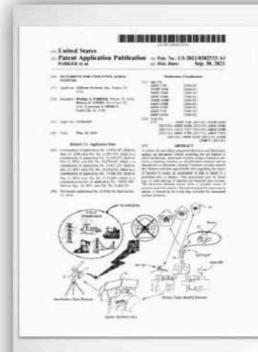


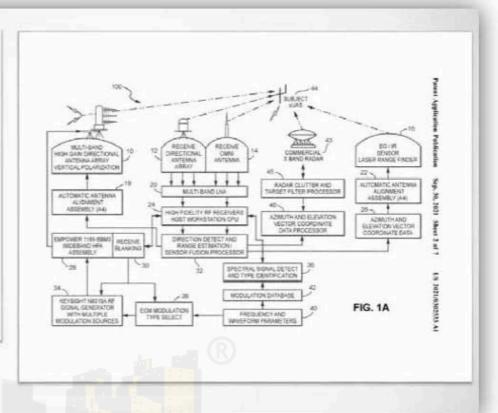


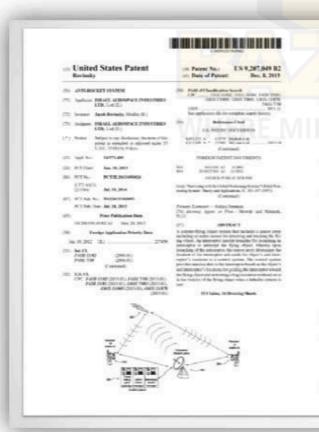


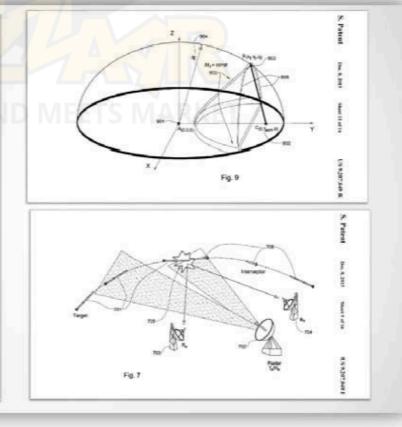
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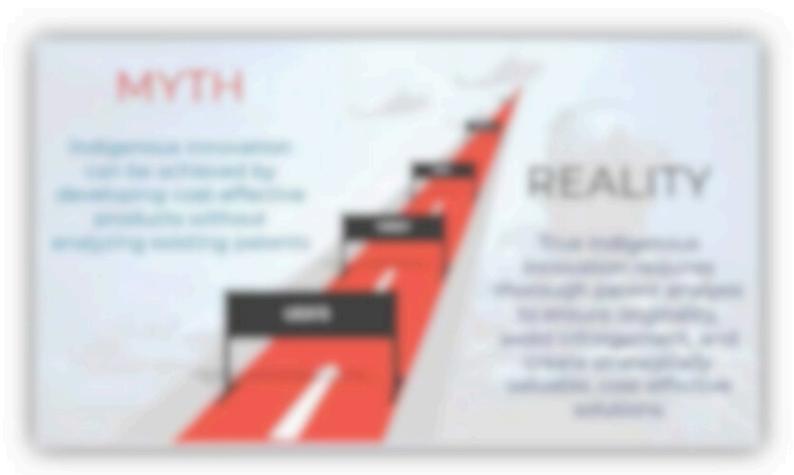






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UNDERWATER AND MARITIME TECHNOLOGIES

Underwater and Maritime Technologies are crucial in modern defense strategies, enhancing security in oceans and waterways. Submarine stealth advancements, such as soundproof coatings and ultra-quiet engines, make submarines almost invisible to detection systems, providing a significant edge in underwater missions. Autonomous underwater systems, including drones and robotic vehicles, are revolutionizing tasks like surveillance, reconnaissance, and mine detection, reducing risks to human operators. Meanwhile, advanced sonar technologies enable precise detection and tracking of underwater objects and threats, ensuring improved situational awareness and quicker response times. These technologies not only strengthen naval capabilities but also play a crucial role in protecting trade routes and coastal regions. By combining innovation and automation, underwater and maritime technologies are shaping the future of global defense, ensuring safety and preparedness in an increasingly complex security landscape.

PATENT STATISTICS

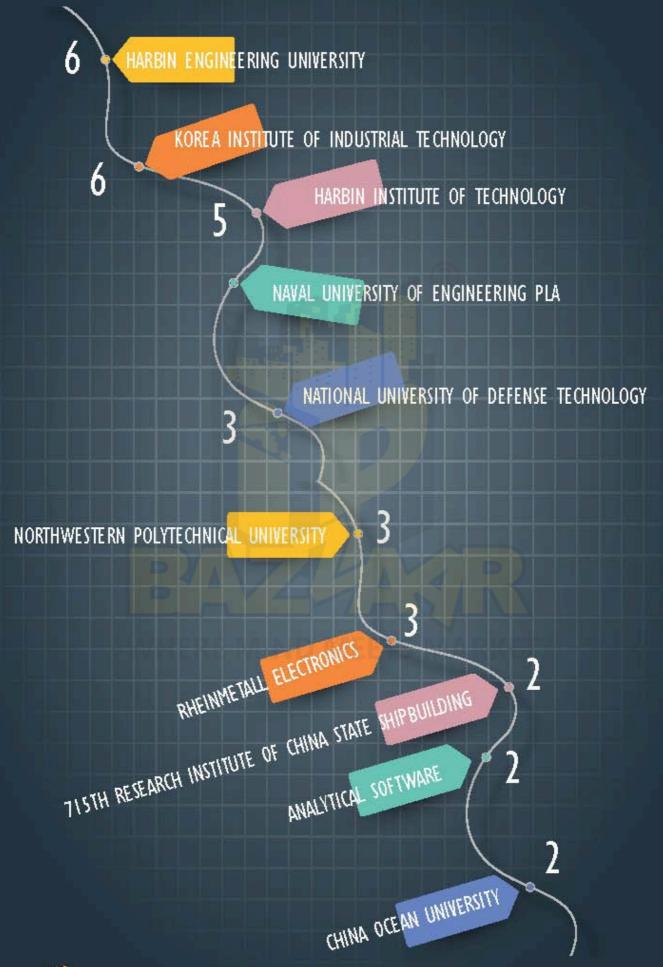
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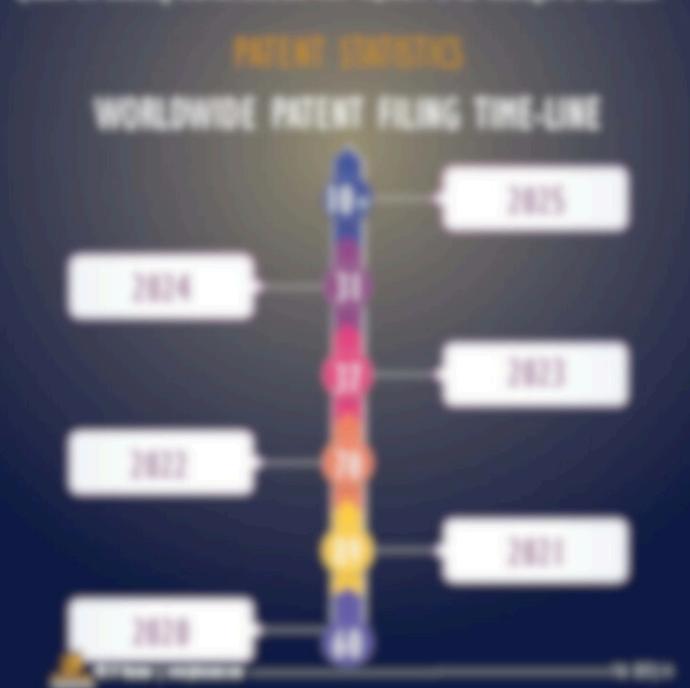
PATENT LANDSCAPE



NOTABLE INNOVATIONS

Patent Application	Priority Date	Title	Assignee
IN202441035054	2024-05-03	Detection Of Underwater Mines From Sensor Data using IoT,ML And Web Technology	Vidyavardhaka College of Engineering
IN202441063668	2024-08-23	Homeostatic Flying Hovercraft: Efficient And Durable Solutions for Military and Rescue Mission	Sri Sairam Engineering College
CN118520627	2023-02-17	Underwater Combat Effectiveness Evaluation Method Based on Complex Sound Propagation Environment	Harbin University of Science & Technology
DE 102023002571	2023-06-24	Apparatus And Method for Controlling Autonomous Underwater Vehides	Bundesrepublik Deutschland Bundesamt Fuer Ausruestung Informationstechnik & Nutzung Der Bundeswehr
CN115598648	2022-11-01	Sonar Defense Alarm System Suitable for Seabed Bottom-Supported Detection Equipment	Beijing Startest Tec

ROBOTICS AND SWARM TECHNOLOGIES



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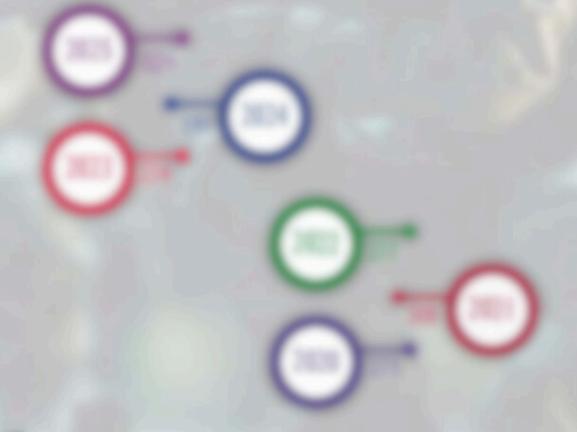
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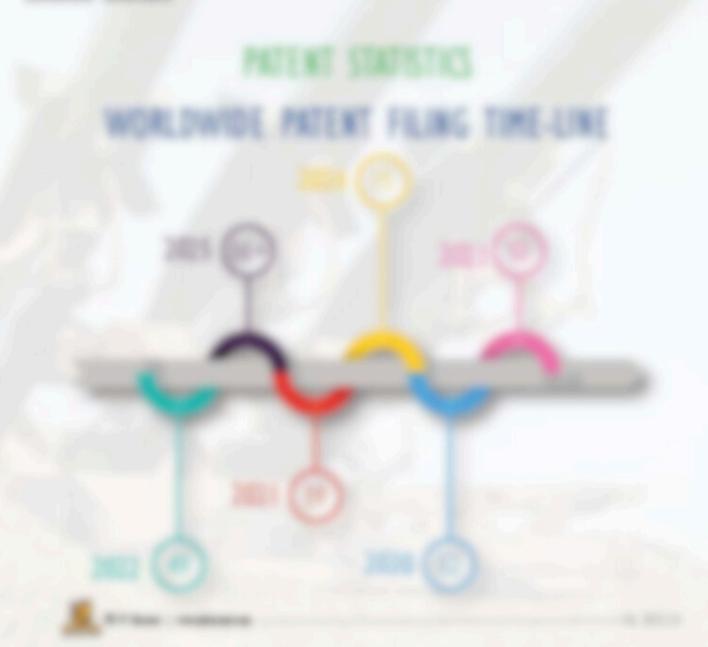
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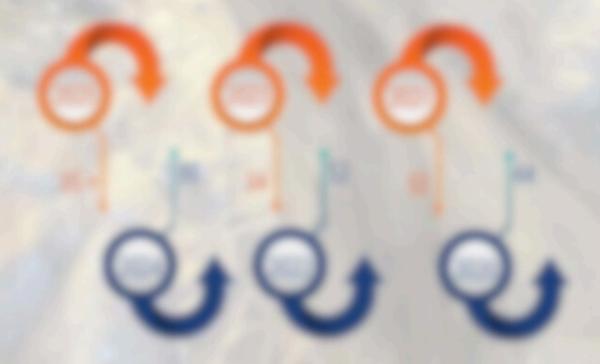
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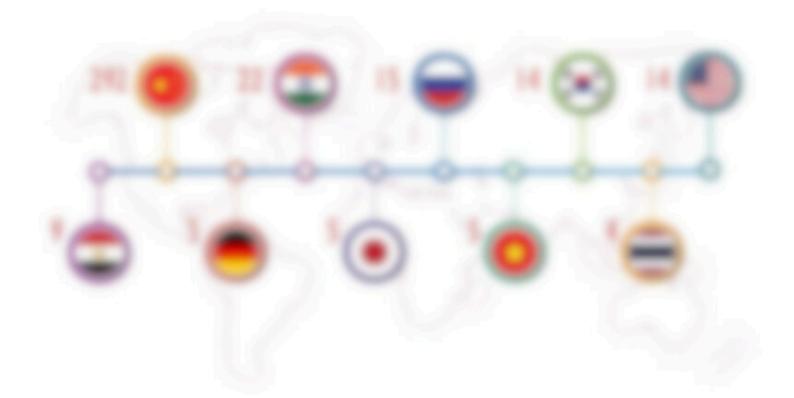
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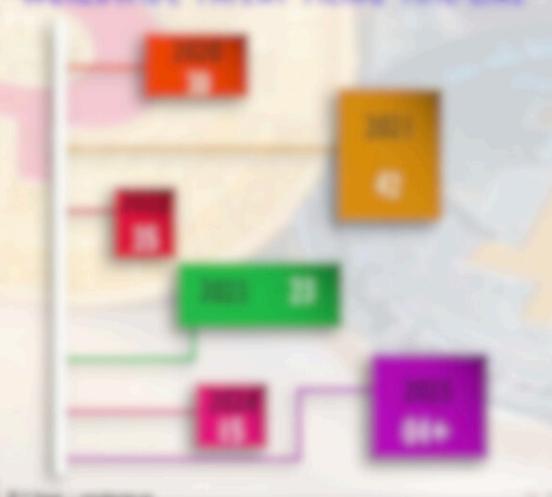


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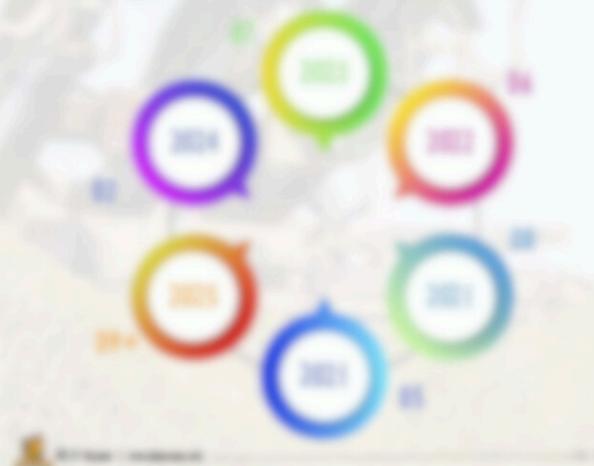


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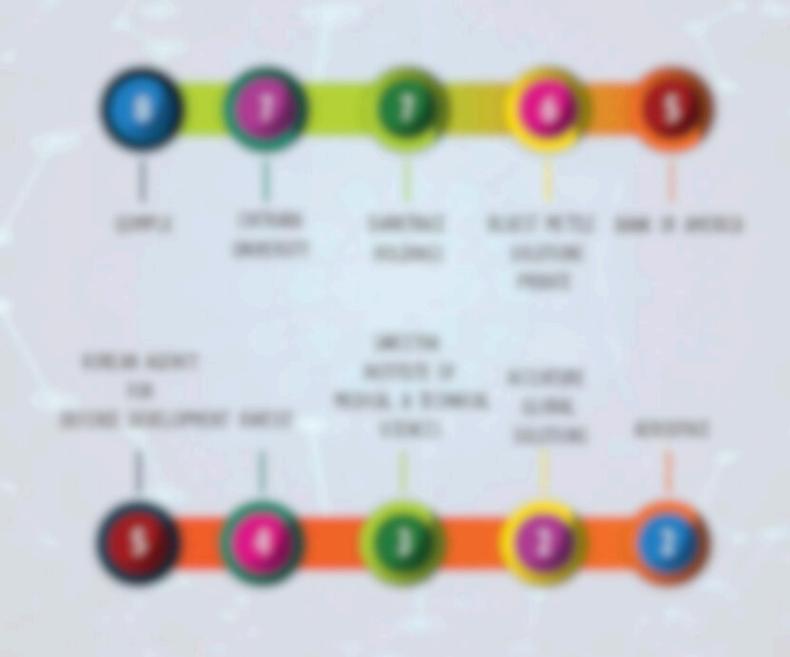


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HYPERSONIC TECHNOLOGIES

PATENT STATISTICS WORLDWIDE PATENT FILING TIME-LINE



PATENT LANDSCAPS



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PATENT LANDSCAPS



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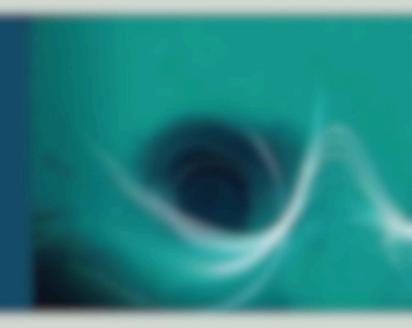




TECH ZONE

TECHNOLOGIES AVAILABLE FOR LICENSING

TURBULENT FLOW OPTIMIZATION



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ELECTRONIC DETECTOR FOR EXPLOSIVES

TECH INTRO

The technology provides a cutting edge-solution for detecting explosives, offering a versatile tool for security applications. It combines innovative design with advanced detection methods for enhanced safety and reliability.



DI PROBLEMS ADDRESSED

- Complex System
- Low Sensitivity
- Inaccurate Detection
- Bulky in Size
- High Heat Conductivity
- Expensive System

M TARGET AUDIENCE

- UAV Manufacturing Industry
- Defense and Military
- Agriculture Sector
- Disaster Management

M TECH FEATURES



Simple Construction



Reliable and Accurate



Easy to Operate



Portable System



Shock Resistance



Scalable



Cost Effective

IP Status

Granted in India

Available For

Exclusive & Non-Exclusive License

Tech Status

Technology Validated

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OCTOCOPTER WITH SUPERIOR STRENGTH

TECH INTRO

The technology introduces an advanced octocopter drone primarily constructed using AISI 304 (1.4301) stainless steel, a high quality material known for its exceptional corrosion resistance, durability and mechanical strength. The material enhances drone's performances and longevity in diverse operating conditions.



PROBLEMS ADDRESSED

- Lack of Structural Strength
- Excess Drone Weight
- Rough Landings
- Limited Working Area

TARGET AUDIENCE

- UAV Manufacturing Industry
- Defense and Military
- Agriculture Sector
- Disaster Management

TECH FEATURES



Enhanced Strength



Smart Sensors and Camera



Lightweight Design



Enhances Working Area



Integrated Flight Controller



Laser Cutting Method

IP Status



Available For



Tech Status



TRAINING SIMULATION SYSTEM

TECH INTRO

The technology introduces a training simulation system that provides comprehensive training for defense and law enforcement, enhancing tactical proficiency, strategic responses, performance evaluation.



PROBLEMS ADDRESSED

- Lack of Training
- Inappropriate Strike Location
- Risk of Fatal Injuries
- 2 Performance Evaluation Gap

TARGET AUDIENCE

- Defense and Military
- Law Enforcement Sector
- Security Training Industry

TECH FEATURES







Skill Training



Performance Evaluation System



Realistic Environment

IP Status

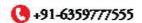
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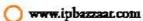
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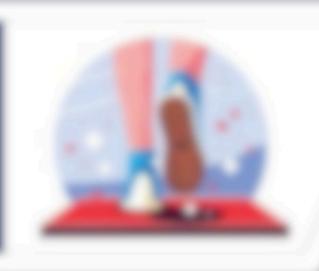




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PROBLING ADDRESSES

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PORTABLE AND BULLETPROOF RESCUE COVER



TECH INTRO

The invention describes a foldable, bulletproof shield engineered to ensure the safe rescue of hostages and protection of special forces during emergencies and shootouts.

PROBLEMS ADDRESSED

- Lack of Portability
- Limited Protection
- Slow Deployment
- Multi-Directional Vulnerability
- Inadequate Coverage

TARGET AUDIENCE

- O Defense Sectors
- Law Enforcement
- Emergency Rescue Units
- Security Industries
- Tactical Equipment Suppliers

TECH FEATURES



Compact & Foldable Design



Bulletproof & Fire-Resistant



Customizable & Modular Panels



Rapid & Tool-free Assembly



Mobile & Easy to Carry

IP Status

Granted in India

Available For

✓ Exclusive & Non-Exclusive License

Tech Status

✓ Technology Validated

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International Optical Technologies Association



The International Optical Technologies Association (IOTA) - formerly known as the International Hologram Manufacturers Association (IHMA) - is made up of over 70 of the world's leading suppliers of optical technologies who actively cooperate to maintain the highest professional, security and quality standards in support of their customers.

Founded in 1993 to represent the interests of hologram manufacturers and the hologram industry, it has expanded in 2024 to represent suppliers of all optical technologies. The association is dedicated to promoting the interests of the optical technologies industry worldwide and to helping users achieve their commercial, aesthetic and authentication objectives through the effective use of holography.

IOTA membership confers authenticity and credibility on companies that join - all of which are rigorously vetted and adhere to a strict Code of Practice governing standards, business ethics, customer service, respect for and protection of customers' and each others' intellectual property.

The IOTA is a not-for-profit membership organisation registered in the UK, liability limited by guarantee.

Membership is open to all Optical Variable Device (OVD) suppliers. For more information, membership benefits, and the procedure for joining the IOTA visit the website below.

iot-association.org



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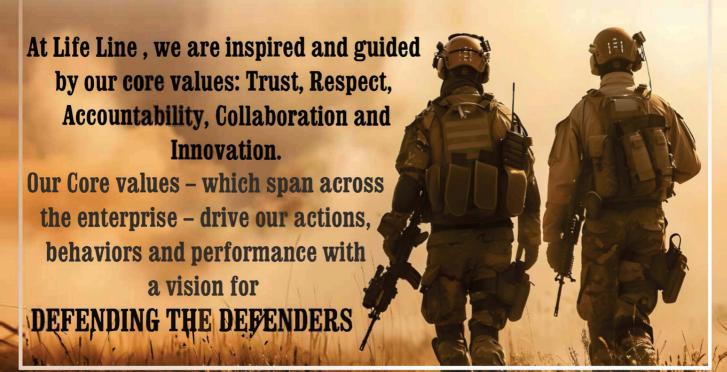
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- Strategic Consultation





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