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[See Rule 22(1)]
RECEIPT

Docket No 19031 **Date/Time 2025/08/20 22:58:17**

To **UserId: SB2802**
Sudarshana Bandyopadhyay

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CBR Detail:

Sr. No.	App. Number	Ref. No./Application No.	Amount Paid	C.B.R. No.	Form Name	Remarks
1	E-12/1645/2025/KOL	202531079139	2500	10434	FORM 9	
2	202531079139	TEMP/E-1/88563/2025-KOL	1920	10434	FORM 1	SMART MOBILE DEVICE FOR ANTI TRACKING AND ACCIDENT PREVENTION
3	E-106/2493/2025/KOL	202531079139	0	-----	FORM28	----

TransactionID	Payment Mode	Challan Identification Number	Amount Paid	Head of A/C No
N-0001734158	Online Bank Transfer	2008250068893	4420.00	1475001020000001

Total Amount : ₹ 4420.00
Amount in Words: Rupees Four Thousand Four Hundred Twenty Only

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(57) Abstract :
A smart mobile device system integrated with Artificial Intelligence (AI) and Virtual Private Network (VPN) technologies, the system comprising: an AI Context Engine; a Smart VPN Manager; a Driving Behaviour Detector; a Notification and Distraction Controller; and a central mobile device platform operatively configured to integrate the AI Context Engine, Smart VPN Manager, Driving Behaviour Detector, and Notification and Distraction Controller, wherein the system provides an adaptive framework for enhancing user privacy and safety and a method of operating a smart mobile device system as claimed in claim 1, comprising: acquiring data from mobile device sensors; processing the data through the AI Context Engine; integrating outputs from the Smart VPN Manager, Driving Behaviour Detector, and Notification and Distraction Controller at the central platform; and operating the system adaptively in response to detected context.

No. of Pages : 18 No. of Claims : 11

FORM 2

THE PATENTS ACT, 1970

(39 OF 1970)

AND

THE PATENTS RULES, 2003

COMPLETE SPECIFICATION

(*See* section 10; rule 13)

1. TITLE OF THE INVENTION

SMART MOBILE DEVICE FOR ANTI TRACKING AND ACCIDENT PREVENTION

2. APPLICANT

(a) NAME: SRJX RESEARCH AND INNOVATION LAB LLP

(b) NATIONALITY: India

(c) ADDRESS: Plot No - 3E/474, Sector-9, CDA, Post- Markat Nagar, Cuttack-753014, Odisha, India

3. PREAMBLE TO THE DESCRIPTION

The following specification particularly describes the invention and the manner in which it is to be performed.

Signature Not Verified
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Date: 20-Aug-2025 22:51:01
Reason: Patent Efiling

FIELD OF THE INVENTION

The present invention pertains to the field of smart mobile device technologies, and more particularly to systems and methods that integrate Artificial Intelligence (AI) and Virtual Private Network (VPN) functionalities for enhancing user safety and privacy. More particularly, the present invention pertains to AI-driven behavioral monitoring and motion analysis for accident prevention, combined with intelligent VPN-based tracking prevention mechanisms, thereby providing a unified platform for ensuring user anonymity, reducing mobile-related distractions, and mitigating risks associated with unauthorized digital surveillance and vehicular accidents.

BACKGROUND OF THE INVENTION

Smartphones, with their integration of GPS, motion sensors, high-speed internet and diverse application ecosystems, have become indispensable in modern life. While these advancements enhance convenience, they also introduce significant risks relating to privacy, security, and user safety. The growing sophistication of surveillance technologies and data-mining practices has made it easier than ever to monitor individuals' movements, behaviours, and preferences. Cyberstalkers, intrusive advertisers, and unauthorized applications frequently exploit GPS and network access to trace users, raising serious concerns about personal privacy. Conventional privacy tools, such as standard VPNs, provide only limited protection by masking IP addresses, without analyzing real-time threats or detecting suspicious tracking behavior. This limitation highlights the absence of a dynamic system capable of actively preventing tracking before it compromises user safety.

In parallel, mobile phone distractions have become a major contributor to road accidents worldwide. Constant notifications, incoming calls, and the compulsion to check applications frequently divert driver attention, leading to hazardous and sometimes fatal outcomes. Global health authorities consistently report distracted driving as a leading cause of accidents. Existing preventive tools ranging from apps that block features while driving to those

that offer simple alerts remain fragmented, reactive, and context-insensitive. Crucially, they fail to address the combined challenge of protecting user privacy while simultaneously reducing accident risks.

Advances in Artificial Intelligence (AI) provide a foundation to address these issues. AI can perform predictive analytics, behavioural monitoring, and anomaly detection by interpreting sensor data, environmental cues, and user activity patterns. In the mobile context, AI can identify when a user is in motion, predict distracted behaviour that may cause accidents, and detect unauthorized tracking through network and geolocation monitoring. When combined with an adaptive VPN, AI offers the potential for both anonymity and active protection against surveillance.

However, existing solutions remain siloed and suffer from several limitations. Current privacy and anti-tracking technologies are largely passive and non-contextual. Most VPN services simply provide IP masking and encrypted tunnelling, without distinguishing between legitimate app activity and malicious surveillance, or monitoring background data leakage, permission misuse, and location anomalies. This absence of adaptive, real-time threat detection leaves users exposed to surveillance, profiling, and cyberstalking.

Likewise, current safety applications are reactive and limited in scope. They typically detect only basic driving conditions such as speed or orientation, or rely on manual “Do Not Disturb” modes. They lack contextual intelligence to interpret complex sensor data—such as abrupt deceleration, acceleration trends, or high-risk traffic environments—and fail to adapt to user-specific behaviour. They also overlook the cognitive impact of alerts and notifications, reducing their effectiveness in preventing real-world accidents.

Another critical limitation of prior technologies is their compartmentalized approach. VPNs may secure internet connections but do not mitigate driver distraction, while road safety apps provide limited accident-prevention functions without addressing cyber risks such as tracking or metadata leakage. This fragmented design diminishes overall protection and is particularly inadequate for individuals constantly in transit, such as drivers, delivery agents, or frequent travellers.

Furthermore, most prior systems are static and rule-based, offering one-size-fits-all responses without learning from user behaviour or risk profiles. Blanket notification blocking, for example, may suppress both trivial alerts and critical emergency communications, reducing utility and safety. Without predictive analytics and adaptive learning, these systems remain ill-suited to dynamic, high-risk scenarios.

Existing tools also provide little transparency or feedback. VPNs typically run silently without informing users of ongoing threats, while safety apps rarely provide risk scores, behavioural insights, or logs. This lack of accountability undermines trust and prevents meaningful engagement with the technology.

Finally, prior art lacks interoperability with modern smart ecosystems such as connected vehicles, wearables, and IoT-based alert infrastructures. As mobility environments evolve toward smart transportation and city frameworks, this inability to integrate severely restricts scalability and practical relevance.

OBJECTIVE OF THE INVENTION

The primary objective of the present invention is to provide a smart mobile device system integrated with Artificial Intelligence (AI) and Virtual Private Network (VPN) technologies, the system comprising: an AI Context Engine; a Smart VPN Manager; a Driving Behaviour Detector; a Notification and Distraction Controller; and a central mobile device platform operatively configured to integrate the AI Context Engine, Smart VPN Manager, Driving Behaviour Detector, and Notification and Distraction Controller, and the system provides an adaptive framework for enhancing user privacy and safety.

Another objective of the present invention is to ensure that the AI Context Engine is adapted to receive and process data from sensors of the mobile device.

One other objective objective of the present invention is to ensure that the Smart VPN Manager is adapted to establish encrypted communication between the device and external networks.

Another objective of the present invention is to ensure that the Driving Behaviour Detector is adapted to analyse vehicular motion data.

Yet another objective of the present invention is to ensure that the Notification and Distraction Controller is adapted to regulate notifications and application activity on the device.

One other objective of the present invention is to ensure that the central mobile device platform provides a coordinated control of the AI Context Engine, Smart VPN Manager, Driving Behaviour Detector, and Notification and Distraction Controller.

Another objective of the present invention is to ensure an Emergency Response Integrator operatively linked to the central mobile device platform.

One other objective of the present invention is to ensure that the mobile device platform is operable in Safe Mobility Mode when vehicular activity is detected.

One other objective of the present invention is to ensure that the modules are configured to operate in an event-driven and context-sensitive manner under the control of the AI Context Engine.

Another objective of the present invention is to ensure that the mobile device is adapted for interoperability with external systems including connected vehicles, wearables, or emergency service networks.

Yet another objective of the present invention is provide a method of operating a smart mobile device system as claimed in claim 1, comprising: acquiring data from mobile device sensors; processing the data through the AI Context Engine; integrating outputs from the Smart VPN Manager, Driving Behaviour Detector, and Notification and Distraction Controller at the central platform; and operating the system adaptively in response to detected context.

SUMMARY OF THE INVENTION

The present invention provides a smart mobile device system that integrates Artificial Intelligence (AI) with a Virtual Private Network (VPN) to deliver enhanced user privacy and accident prevention. Unlike conventional smartphones and applications that function in isolation, the disclosed system employs an AI Context Engine to continuously analyse sensor inputs for detecting user state, a Smart VPN Manager for adaptive threat detection and secure routing, a Driving Behaviour Detector for identifying hazardous driving patterns, and a Notification and Distraction Controller for minimizing cognitive load by filtering non-essential alerts. All modules are integrated within a central mobile platform that operates in an event-driven and context-sensitive manner, dynamically switching to Safe Mobility Mode when vehicular activity is detected. By unifying cyber-protection against unauthorized tracking with proactive accident risk mitigation, the invention establishes a comprehensive and adaptive framework for safeguarding both the digital security and physical safety of mobile users.

BRIEF DESCRIPTION OF DRAWINGS

Figure 1: The figure provides the core component blocks of the present invention

Figure 2: The figure provides the architecture of the invention is represented through interconnected modules, each performing distinct but collaborative functions:

1. **AI Context Engine** – serving as the intelligence layer, it continuously monitors user context through GPS, accelerometer, and gyroscope inputs, enabling driving detection, motion pattern analysis, and hazard assessment.
2. **Smart VPN Manager** – ensuring real-time privacy and anti-tracking by detecting suspicious network activity and dynamically establishing encrypted network routing.

3. **Driving Behaviour Detector** – monitoring motion data to identify sudden braking, hazardous turns, and high-speed conditions, and generating timely alerts for accident prevention.

4. **Notification and Distraction Controller** – filtering and suppressing non-essential notifications and restricting distracting applications during vehicular activity.

5. **Central Mobile Device Platform** – acting as the integration hub, enabling intelligent coordination of modules and adaptive response to contextual conditions.

DETAILED DESCRIPTION OF INVENTION

The present invention relates to a smart mobile device system that integrates Artificial Intelligence (AI) with Virtual Private Network (VPN) technology, the combination of which is directed towards achieving advanced tracking prevention and accident mitigation. The invention is conceived to overcome the limitations inherent in conventional smartphones and existing mobile applications which function in isolation, and which, owing to their siloed operation, fail to provide either contextual awareness or integrated safety and privacy management. The disclosed system, in contrast, provides a holistic and adaptive approach by employing real-time AI-based behavioral monitoring, contextual intelligence, encrypted network routing, and intelligent notification management in a synergistic manner.

At the centre of the invention is an AI-driven decision engine, which continuously acquires and processes data streams derived from various sensors embedded within the mobile device. Such sensors include, inter alia, a Global Positioning System (GPS) unit, accelerometer, and gyroscope, in addition to inputs relating to application usage and background activity. The decision engine is configured to analyse these diverse inputs so as to ascertain whether the user is idle, walking, in motion as a passenger, or operating a vehicle. This contextual determination enables the system to autonomously select and activate the relevant modules, thereby ensuring that protective actions are carried out without requiring manual intervention.

In circumstances where the decision engine detects vehicular motion, the device is adapted to initiate a Safe Mobility Mode. In this mode, the system suppresses or defers non-essential notifications, incoming calls, and extraneous background processes, thereby minimizing distractions that could compromise user focus during driving. Simultaneously, the invention invokes a machine learning-based accident prediction model, which evaluates motion parameters such as sudden deceleration, erratic vehicular patterns, abrupt or hazardous turns, excessive speed, and proximity to traffic hotspots. Based upon such evaluations, the system is capable of issuing real-time alerts or triggering pre-determined emergency actions, with the objective of enhancing driver awareness, reducing accident likelihood, and improving overall situational safety.

In relation to tracking prevention and digital surveillance protection, the invention incorporates an intelligent VPN mechanism that extends beyond the conventional functionality of masking IP addresses. The VPN mechanism is configured to employ deep packet inspection techniques in conjunction with behavioural analytics to detect suspicious patterns of activity. These include unauthorized geolocation access, abnormal or excessive data transmission requests, and anomalies within network behaviour that may indicate covert tracking attempts. Upon detection of such irregularities, the system automatically undertakes corrective action by modifying routing protocols, dynamically switching between secure server nodes, or temporarily disabling the specific application features associated with the suspected tracking activity. Furthermore, the system provides the user with visual indicators and detailed logs of the threats detected and the mitigation actions taken, thereby ensuring a degree of transparency and empowering the user to maintain greater control over their digital footprint.

The invention additionally comprises a user-customizable dashboard, through which the user may exercise granular control over various operational parameters including sensitivity thresholds, notification priorities, and behavioural limits. For instance, while in Safe Mobility Mode, the system may be configured to permit the bypass of emergency calls whilst

continuing to suppress alerts from non-critical applications such as social media or promotional platforms. Over time, the AI component progressively adapts to repeated user behaviour, refining its predictive algorithms and thereby evolving into a personalized safety assistant that reflects the unique lifestyle, habits, and risk tolerance of the individual user.

Furthermore, the invention is capable of functioning as a standalone protective system or as an integrated component within a wider smart ecosystem, encompassing but not limited to connected vehicles, wearable devices, emergency service platforms, and IoT-based safety networks. In the event that the system identifies anomalous driving patterns, high-risk conditions, or a potential accident scenario, it is further adapted to automatically transmit alerts, dispatch location data, or activate emergency response protocols via such external integrations.

The technical significance of the invention resides in its ability to provide dual-layered protection. Firstly, it ensures digital privacy and security by preventing unauthorized surveillance, tracking, and data exploitation. Secondly, it provides physical safety assurance by reducing mobile-induced distractions and proactively identifying accident-prone scenarios. The system is distinguished by its continuous adaptability, contextual responsiveness, and learning-based intelligence, all of which together establish a substantial technical advancement over existing systems which address these domains in isolation and in a non-dynamic manner.

Accordingly, the invention represents a novel and integrated solution in the domain of mobile device technology, wherein the convergence of AI-based behavioral intelligence with adaptive VPN functionality results in an intelligent, self-learning, and context-aware platform. This platform is operable not only to mitigate the risks of unauthorized digital tracking but also to substantially reduce accident risks attributable to smartphone distractions, thereby advancing the field of personal safety and privacy protection in mobile environments.

The embodiments of the present invention may be further elaborated as under:

1. AI Context Engine

The **AI Context Engine** constitutes the intelligence layer of the invention. It continuously monitors the physical and environmental context of the user through built-in mobile sensors, including the GPS, accelerometer, and gyroscope.

- **Driving Detection**: Identifies vehicular activity based on speed, acceleration patterns, and route analysis.
- **Motion Pattern Analysis**: Distinguishes between states such as walking, idle, or rapid acceleration.
- **Hazard Assessment**: Evaluates contextual risks, such as frequent braking zones or sharp turns.

This engine functions as the **triggering module** of the system. Upon detection of driving activity, it activates anti-distraction features and initiates VPN protective measures.

2. Smart VPN Manager

The **Smart VPN Manager** is responsible for ensuring privacy and anti-tracking capabilities beyond those of conventional static VPN systems. It employs **AI-powered inspection** of network behavior and adapts its functions in real time.

- **Threat Detection**: Identifies anomalous traffic, unauthorized data access requests, and abnormal application behaviors indicative of tracking.
- **Encrypted Network Routing**: Establishes secure VPN tunnels with dynamic routing, thereby masking the user's IP address and preventing location or metadata leakage.

Unlike prior systems, this module adapts by evaluating ongoing threats and dynamically shifting VPN nodes and routing protocols.

3. Driving Behavior Detector

The **Driving Behavior Detector** is configured to interpret vehicular motion and predict accident-prone conditions. It relies on sensor data to monitor driver activity in real time.

- **Sudden Braking Detection**: Issues alerts or locks the screen in the event of abrupt deceleration.
- **High-Speed Condition Monitoring**: Restricts distracting functions while the device is in motion at elevated speeds.
- **Hazardous Turn Analysis**: Identifies sharp or erratic turning behavior and generates haptic or auditory feedback.

Through such continuous monitoring, this module contributes to proactive accident prevention.

4. Notification and Distraction Controller

The Notification and Distraction Controller manages cognitive load and reduces distractions during high-risk contexts such as driving.

- Suppression of Notifications: Filters out non-essential notifications including social media alerts, advertisements, and promotional messages.
- App Activity Limiting: Restricts usage of distracting applications such as games or messaging when vehicular activity is detected.

This module operates in feedback connection with the AI Context Engine. The more it learns from user behavior and preferences, the more precise its suppression and filtering mechanisms become.

5. Central Mobile Device Integration

The mobile device itself serves as the central integration platform, within which the above modules operate in conjunction. Each module communicates with the AI-driven decision engine, thereby ensuring that the device is:

- Intelligent enough to recognize and respond to contextual risks,
- Secure enough to safeguard against cyber threats, and
- Adaptive enough to align with user-specific behavioural patterns.

The user interface is designed to represent active modules and operational modes through appropriate symbols and notifications.

System Operation

The invention functions through an event-driven and context-sensitive architecture. The AI Context Engine continuously collects real-time data and applies machine learning algorithms to build behavioural models based on historical usage, speed variations, and environmental conditions. When vehicular motion is detected, the system initiates the Driving Behaviour Detector to monitor unsafe dynamics such as sudden braking, hazardous turns, or excessive speed. Detected anomalies trigger immediate alerts or escalation measures, including the preparation of emergency notifications.

At the same time, the Notification and Distraction Controller filters incoming communications, suppressing non-critical alerts and permitting only essential services such as navigation or emergency calls. Through iterative learning, the AI engine refines these priorities according to the user's actual interactions.

Parallel to safety measures, the Smart VPN Manager secures the digital footprint of the user by monitoring for unauthorized access attempts, abnormal data flows, or background surveillance activities. Upon confirmation of a threat, the system dynamically reroutes encrypted traffic and, where necessary, disables the high-risk application or feature.

All modules report to the centralized logic, enabling a coordinated response. If an accident risk or tracking attempt crosses a defined threshold, the system may activate an Emergency Response Integrator, capable of notifying designated contacts, sharing GPS coordinates, and recording incident details.

Technical Significance

The disclosed invention provides a dual-layer safety mechanism, simultaneously ensuring digital privacy and physical accident prevention. Its continuous adaptability, learning-based intelligence, and integration of AI with VPN protection represent a substantial advancement over existing solutions, which address these concerns in isolation. By converging privacy

protection with accident prevention into a unified mobile framework, the invention contributes significantly to the field of mobile computing, cybersecurity, and personal safety technologies.

We claim:

1. A smart mobile device system integrated with Artificial Intelligence (AI) and Virtual Private Network (VPN) technologies, the system comprising:

   a. an AI Context Engine;

   b. a Smart VPN Manager;

   c. a Driving Behaviour Detector;

   d. a Notification and Distraction Controller; and

   e. a central mobile device platform operatively configured to integrate the AI Context Engine, Smart VPN Manager, Driving Behaviour Detector, and Notification and Distraction Controller, and the system provides an adaptive framework for enhancing user privacy and safety.

2. The system as claimed in claim 1, wherein the AI Context Engine is adapted to receive and process data from sensors of the mobile device.
3. The system as claimed in claim 1, wherein the Smart VPN Manager is adapted to establish encrypted communication between the device and external networks.
4. The system as claimed in claim 1, wherein the Driving Behaviour Detector is adapted to analyse vehicular motion data.
5. The system as claimed in claim 1, wherein the Notification and Distraction Controller is adapted to regulate notifications and application activity on the device.
6. The system as claimed in claim 1, wherein the central mobile device platform provides a coordinated control of the AI Context Engine, Smart VPN Manager, Driving Behaviour Detector, and Notification and Distraction Controller.
7. The system as claimed in claim 1, wherein the system further comprises an Emergency Response Integrator operatively linked to the central mobile device platform.

8. The system as claimed in claim 1, wherein the mobile device platform is operable in Safe Mobility Mode when vehicular activity is detected.
9. The system as claimed in claim 1, wherein the modules are configured to operate in an event-driven and context-sensitive manner under the control of the AI Context Engine.
10. The system as claimed in claim 1, wherein the mobile device is adapted for interoperability with external systems including connected vehicles, wearables, or emergency service networks.
11. A method of operating a smart mobile device system as claimed in claim 1, comprising:

a. acquiring data from mobile device sensors;

b. processing the data through the AI Context Engine;

c. integrating outputs from the Smart VPN Manager, Driving Behaviour Detector, and Notification and Distraction Controller at the central platform; and

d. operating the system adaptively in response to detected context.

Dated this 20th day of August 2025

Sudarshana Bandyopadhyay

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APPLICATION NO._____

ABSTRACT

SMART MOBILE DEVICE FOR ANTI TRACKING

AND ACCIDENT PREVENTION

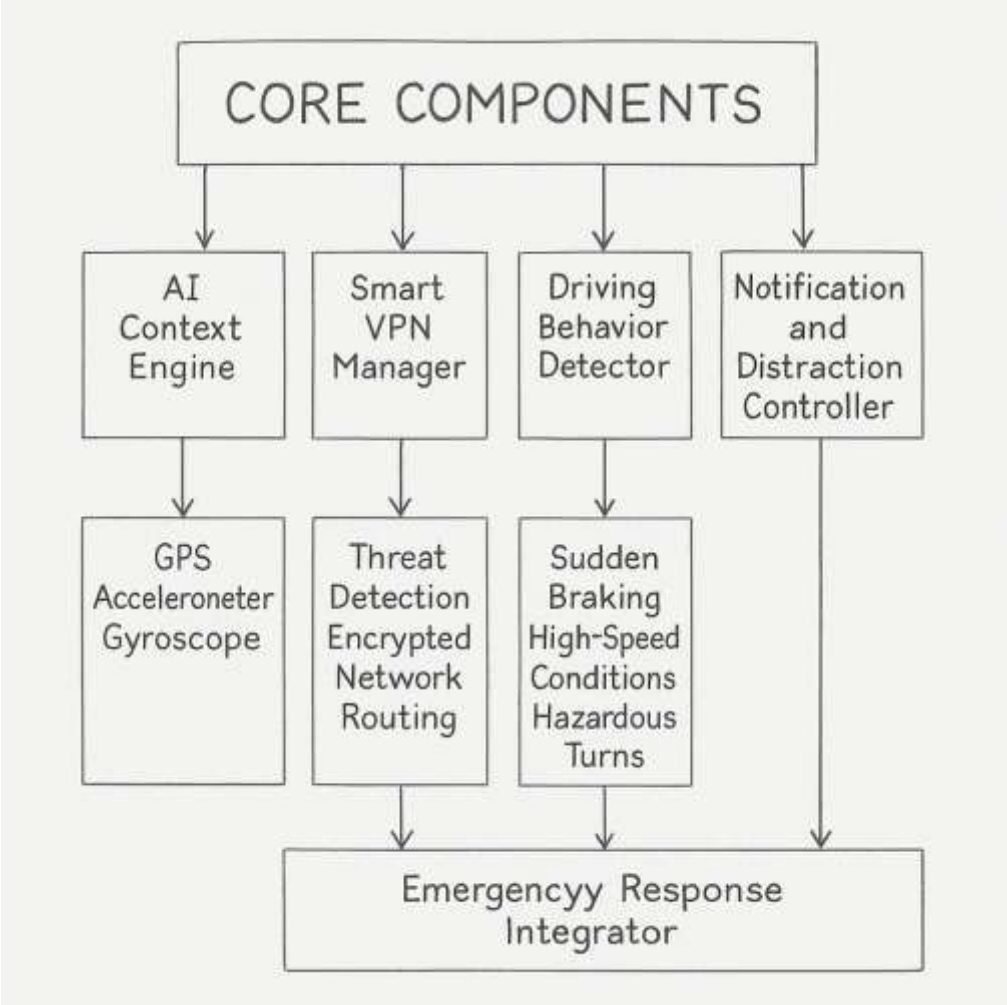
A smart mobile device system integrated with Artificial Intelligence (AI) and Virtual Private Network (VPN) technologies, the system comprising: an AI Context Engine; a Smart VPN Manager; a Driving Behaviour Detector; a Notification and Distraction Controller; and a central mobile device platform operatively configured to integrate the AI Context Engine, Smart VPN Manager, Driving Behaviour Detector, and Notification and Distraction Controller, wherein the system provides an adaptive framework for enhancing user privacy and safety and a method of operating a smart mobile device system as claimed in claim 1, comprising: acquiring data from mobile device sensors; processing the data through the AI Context Engine; integrating outputs from the Smart VPN Manager, Driving Behaviour Detector, and Notification and Distraction Controller at the central platform; and operating the system adaptively in response to detected context.

Applicant Name: SRJX RESEARCH AND INNOVATION LAB LLP

Total No. of Sheets: 2

Appl No. -

Sheet 1 of 2



Detailed Flowchart

Figure 1

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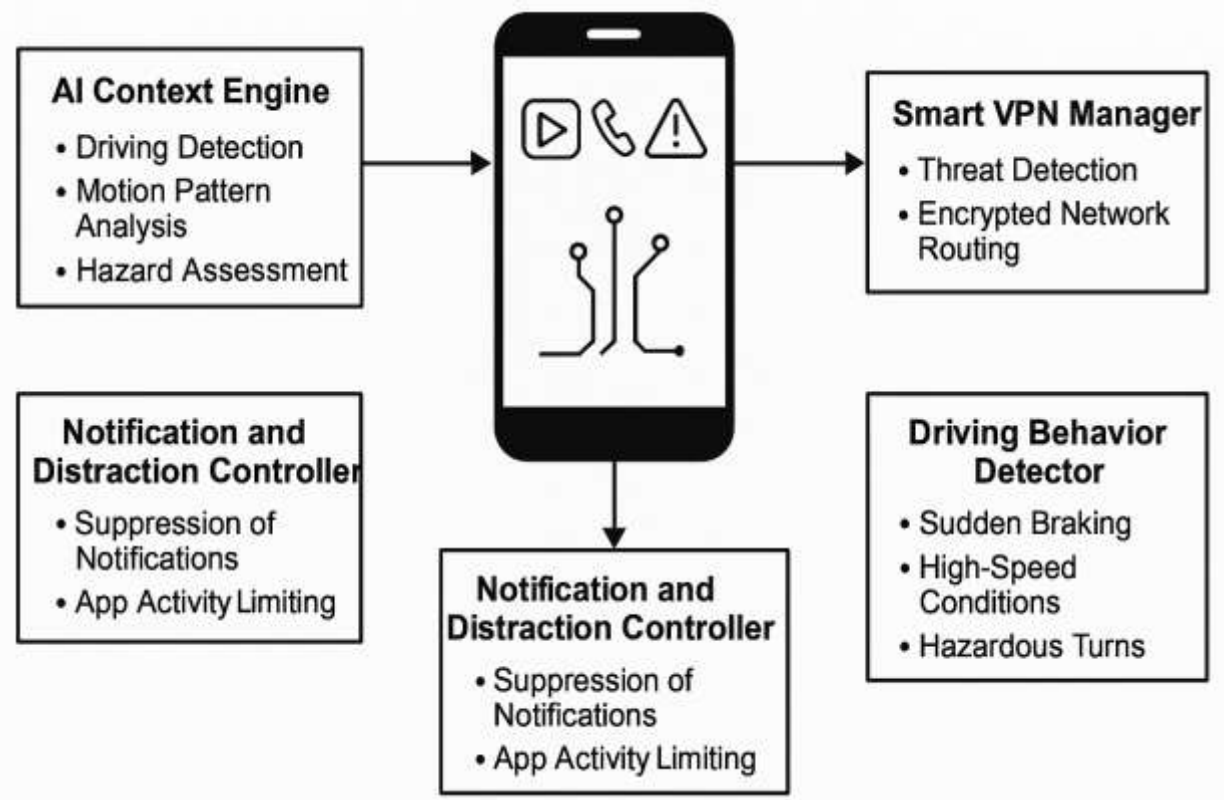
Applicant Name: SRJX RESEARCH AND INNOVATION LAB LLP

Total No. of Sheets: 2

Appl No. -

Figure 2 of 2



Key components

Figure 2

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FORM 5
THE PATENTS ACT, 1970
(39 of 1970)
&
THE PATENTS RULES, 2003

Declaration as to Inventorship
[*See* section 10(6) and rule 13(6)]

1. **NAME OF APPLICANT**: SRJX RESEARCH AND INNOVATION LAB LLP,

hereby declare that the true and first inventor(s) of the invention disclosed in the complete specification filed in pursuance of our application numbered _____ dated 20 August 2025 are:

2. **INVENTORS:**

I. a) Name: **DR SOUMYA RANJAN JENA**
b) Nationality: An Indian National
b) c) Address: Plot No - 3E/474, Sector-9, CDA, Post- Markat Nagar, Cuttack-753014, Odisha, India

II. a) Name: **MR VINAY AJIT GANDHI**
c) Nationality: An Indian National
d) Address: Flat No - 1605, A Wing, TW Garden Society, Thakur Village, Kandivali East, Mumbai-400101, India.

Dated this 20th day of August 2025

Sudarshana

Name of the signatory:

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To,
The Controller of Patents,
The Patent Office
At Kolkata

UDYAM REGISTRATION CERTIFICATE

UDYAM REGISTRATION NUMBER	**UDYAM-OD-07-0095836**
NAME OF ENTERPRISE	**SRJX RESEARCH AND INNOVATION LAB LLP**

TYPE OF ENTERPRISE *

SNo.	Classification Year	Enterprise Type	Classification Date
1	2025-26	Micro	16/08/2025

MAJOR ACTIVITY — **SERVICES**

SOCIAL CATEGORY OF ENTREPRENEUR — **GENERAL**

NAME OF UNIT(S)

S.No.	Name of Unit(s)
1	SRJX RESEARCH AND INNOVATION LAB LLP

OFFICAL ADDRESS OF ENTERPRISE

Flat/Door/Block No.	PLOT NO-3E/474	Name of Premises/ Building	SECTOR-9
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Road/Street/Lane	Avinab Bidanasi	City	Cuttack Sadar
State	ODISHA	District	CUTTACK , Pin 753014
Mobile	9090255155	Email:	soumyajena1989@gmail.com

DATE OF INCORPORATION / REGISTRATION OF ENTERPRISE — **05/05/2025**

DATE OF COMMENCEMENT OF PRODUCTION/BUSINESS — **05/05/2025**

NATIONAL INDUSTRY CLASSIFICATION CODE(S)

SNo.	NIC 2 Digit	NIC 4 Digit	NIC 5 Digit	Activity
1	72 - Scientific research and development	7210 - Research and experimental development on natural sciences and engineering	72100 - Research and experimental development on natural sciences and engineering	Services

DATE OF UDYAM REGISTRATION — **16/08/2025**

* **In case of graduation (upward/reverse) of status of an enterprise, the benefit of the Government Schemes will be availed as per the provisions of Notification No. S.O. 2119(E) dated 26.06.2020 issued by the M/o MSME.**

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Reason: Patent Efiling

For any assistance, you may contact:

1. District Industries Centre: CUTTACK (ODISHA)

2. MSME-DFO: CUTTACK (ODISHA)

Udyam Registration Number : UDYAM-OD-07-0095836

Type of Enterprise	MICRO	**Major Activity**	Services
Type of Organisation	Limited Liability Partnership	**Name of Enterprise**	SRJX RESEARCH AND INNOVATION LAB LLP
Owner Name	SRJX RESEARCH AND INNOVATION LAB LLP	**PAN**	AFPFS4480L
Do you have GSTIN	No	**Mobile No.**	9090255155
Email Id	soumyajena1989@gmail.com	**Social Category**	General
Gender	Male	**Specially Abled(DIVYANG)**	No
Date of Incorporation	05/05/2025	**Date of Commencement of Production/Business**	05/05/2025

Bank Details

Bank Name	IFS Code	Bank Account Number
Punjab national bank	PUNB0787800	7878002100002490

Employment Details

Male	Female	Other	Total
3	2	0	5

Investment in Plant and Machinery OR Equipment (in Rs.)

S.No.	Financial Year	Enterprise Type	Written Down Value (WDV)	Exclusion of cost of Pollution Control, Research & Development and Industrial Safety Devices	Net Investment in Plant and Machinery OR Equipment[(A)-(B)]	Total Turnover (A)	Export Turnover (B)	Net Turnover [(A)-(B)]	Is ITR Filled?	ITR Type
1	2023-24	Micro	0.00	0.00	0.00	0.00	0.00	0.00	No	NA

Unit(s) Details

SN	Unit Name	Flat	Building	Village/Town	Block	Road	City	Pin	State	District
1	SRJX RESEARCH AND INNOVATION LAB LLP	PLOT NO-3E/474	SECTOR-9	CDA CUTTACK	NA	Avinab Bidanasi	Cuttack Sadar	753014	ODISHA	CUTTACK

Official address of Enterprise

Flat/Door/Block No.	PLOT NO-3E/474	**Name of Premises/ Building**	SECTOR-9
Village/Town	CDA CUTTACK	**Block**	NA
Road/Street/Lane	Avinab Bidanasi	**City**	Cuttack Sadar
State	ODISHA	**District**	CUTTACK , **Pin :** 753014
Mobile	9090255155	**Email:**	soumyajena1989@gmail.com
Latitude	20.5021859203546	**Longitude:**	85.88860428847029

National Industry Classification Code(S)

SNo.	Nic 2 Digit	Nic 4 Digit	Nic 5 Digit	Activity
1	72 - Scientific research and development	7210 - Research and experimental development on natural sciences and engineering	72100 - Research and experimental development on natural sciences and engineering	Services

Are you interested to get registered on Government e-Market (GeM) Portal	No
Are you interested to get registered on TReDS Portals(one or more)	No
Are you interested to get registered on National Career Service(NCS) Portal	No
Are you interested to get registered on NSIC B2B Portal	No
Are you interested in availing Free .IN Domain and a business email ID	N/A
Are you interested in getting registered on Skill India Digital Portal	No
District Industries Centre	CUTTACK (ODISHA)
MSME-DFO	CUTTACK (ODISHA)
Date of Udyam Registration	16/08/2025
Date of Printing	16/08/2025

IEC Details	
IEC Number	
IEC Status	Inactive
IEC Registration Date	
IEC Modification Date	

"**FORM 1** THE PATENTS ACT 1970 (39 of 1970) and THE PATENTS RULES, 2003 **APPLICATION FOR GRANT OF PATENT** (See section 7, 54 and 135 and sub-rule (1) of rule 20)			(FOR OFFICE USE ONLY)		
			Application No.		
			Filing date:		
			Amount of Fee paid:		
			CBR No:		
			Signature:		
1. APPLICANT'S REFERENCE / IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)					
2. TYPE OF APPLICATION [Please tick (✓) at the appropriate category]					
Ordinary (✓)		Convention ( )		PCT-NP ( )	
Divisional ( )	Patent of Addition ( )	Divisional ( )	Patent of Addition ( )	Divisional ( )	Patent of Addition ( )
3A. APPLICANT(S)					
Name in Full		Nationality	Country of Residence	Address of the Applicant	
SRJX RESEARCH AND INNOVATION LAB LLP		Indian	India	SRJX RESEARCH AND INNOVATION LAB LLP, Plot No - 3E/474, Sector-9, CDA, Post- Markat Nagar, Cuttack-753014, Odisha, India	
3B. CATEGORY OF APPLICANT [Please tick (✓) at the appropriate category]					
Natural Person ( )		Other than Natural Person			
		Small Entity (✓)	Startup ( )	Others ()	
4. INVENTOR(S) [Please tick (✓) at the appropriate category]					
Are all the inventor(s) same as the applicant(s) named above?		Yes ( )	No (✓)		

Signature Not Verified
Digitally Signed.
Name: Sudarshana Bandyopadhyay
Date: 20-Aug-2025 22:51:01
Reason: Patent Efiling

If "No", furnish the details of the inventor(s)

Name in Full	Nationality	Country of Residence	Address of the Inventor
DR SOUMYA RANJAN JENA	Indian	India	Plot No - 3E/474, Sector-9, CDA, Post-Markat Nagar, Cuttack-753014, Odisha, India
MR VINAY AJIT GANDHI	Indian	India	Flat No - 1605, A Wing, TW Garden Society, Thakur Village, Kandivali East, Mumbai-400101, India.

5. TITLE OF THE INVENTION

SMART MOBILE DEVICE FOR ANTI TRACKING AND ACCDENT PREVENTION

6. AUTHORISED REGISTERED PATENT AGENT(S)	IN/PA No.	2802
	Name	Sudarshana Bandyopadhyay
	Mobile No.	9748818235
7. ADDRESS FOR SERVICE OF APPLICANT IN INDIA	Name	**SUDARSHANA BANDYOPADHYAY**
	Postal Address	Ground Floor, S-456, LGF, Greater Kailash – II, New Delhi – 110048, India
	Telephone No.	NA
	Mobile No.	97488 18235
	Fax No.	NA
	E-mail ID	bandyopadhyay.sudarshana@gmail.com

8. IN CASE OF APPLICATION CLAIMING PRIORITY OF APPLICATION FILED IN CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION

Country	Application Number	Filing date	Name of the applicant	Title of the invention	IPC (as classified in the convention country)
N.A.					

9. IN CASE OF PCT NATIONAL PHASE APPLICATION, PARTICULARS OF INTERNATIONAL APPLICATION FILED UNDER PATENT CO-OPERATION TREATY (PCT)	
International application number	International filing date
10. IN CASE OF DIVISIONAL APPLICATION FILED UNDER SECTION 16, PARTICULARS OF ORIGINAL (FIRST) APPLICATION	
Original (first) application No.	Date of filing of original (first) application
N.A.	
11. IN CASE OF PATENT OF ADDITION FILED UNDER SECTION 54, PARTICULARS OF MAIN	
Main application/patent No.	Date of filing of main application
N.A.	N.A.

12. DECLARATIONS

(i) Declaration by the inventor(s)

(**In case the applicant is an assignee**: the inventor(s) may sign herein below or the applicant may upload the assignment or enclose the assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period).

We, the above-named inventor(s) is/are the true & first inventor(s) for this Invention and declare that the applicant(s) herein is/are my/our assignee or legal representative.

(a) Date:
(b) Signature:
(c) Name: **Dr Soumya Ranjan Jena**

(a) Date
(b) Signature(s):
(c) Name: **Mr Vinay Ajit Gandhi**

(ii) Declaration by the applicant(s) in the convention country

(In case the applicant in India is different than the applicant in the convention country: the applicant in the convention country may sign herein below or applicant in India may upload the assignment from the applicant in the convention country or enclose the said assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period)

I/We, the applicant(s) in the convention country declare that the applicant(s) herein is/are my/our assignee or legal representative. – **N.A.**

(a) Date

(b) Signature(s)

(c) Name(s) of the signatory

(iii) Declaration by the applicant

We the applicant hereby declare that: -

[✓] We are in possession of the above-mentioned invention.

[✓] The complete specification relating to the invention is filed with this application.

[**x**] The invention as disclosed in the specification uses the biological material from India and the necessary permission from the competent authority shall be submitted by me/us before the grant of patent to me/us.

[✓] There is no lawful ground of objection(s) to the grant of the Patent to us.

[**x**] We are the true & first inventor(s).

[✓] We are the assignee or legal representative of true & first inventor(s).

[**x**] The application or each of the applications, particulars of which are given in Paragraph-8, was the first application in convention country in respect of my invention(s).

[**x**] We claim the priority from the above mentioned application(s) filed in convention country/countries and state that no application for protection in respect of the invention had been made in a convention country before that date by us or by any person from which I derive the title.

[**x**] Our application in India is based on international application under Patent Cooperation Treaty (PCT) as mentioned in Paragraph-9.

[**x**] The application is divided out of my /our application particulars of which is given in Paragraph-10 and pray that this application may be treated as deemed to have been filed on DD/MM/YYYY under section 16 of the Act.

[**x**] The said invention is an improvement in or modification of the invention particulars of which are given in Paragraph-11.

13. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION

(a) Form 2

Item	*Details*	*Fee*	*Remarks*
Complete/ provisional specification	No. of pages: 13	1600	Including Form 2, description,
No. of Claim(s)	No. of Claims = 11 No. of Pages = 2	-	Claim pages
Abstract	1		Abstract page
No. of Drawing(s)	No. of drawings = 2 and No. of pages = 2		Drawing sheets

In case of a complete specification, if the applicant desires to adopt the drawings filed with his provisional specification as the drawings or part of the drawings for the complete specification under rule 13(4), the number of such pages filed with the provisional specification are required to be mentioned here.

b. Form 3: Statement and Undertaking
c. Form 5: Declaration as to inventorship
d. Power of Attorney
e. Form 28
f. Form 9

Total fee ₹ 4420/- is being paid online through electronic portal

We hereby declare that to the best of our knowledge, information and belief the fact and matters stated herein are correct and we request that a patent may be granted to us for the said invention.

Dated this 20th day of August 2025.

Signature:

Name: Sudarshana Bandyopadhyay
(Regn No: IN/PA 2802)
Agent for the Applicant
Phn no.: 97488 18235
email: bandyopadhyay.sudarshana@gmail.com

To,
The Controller of Patents
The Patent Office,
at Kolkata

FORM 28

THE PATENTS ACT, 1970

(39 of 1970)

AND

THE PATENTS RULES, 2003

TO BE SUBMITTED BY A SMALL ENTITY /STARTUP/EDUCATIONAL INSTITUTION

[See rules 2 (fa), 2(fb), 2(ca) and 7]

1	Name, address and nationality.	We, SRJX RESEARCH AND INNOVATION LAB LLP, of the address Plot No - 3E/474, Sector-9, CDA, Post- Markat Nagar, Cuttack-753014, Odisha, India, applicant in respect of the patent application no. _____ dated 20 August 2025 hereby declare that we are a micro entity in accordance with rule 2(fa) and submit the following document as a proof :
2	Documents to be submitted	
	i. For claiming the status of a small entity:	
	A. For an Indian applicant: Evidence of registration under the Micro, Small and Medium Enterprises Act, 2006 (27 of 2006).	
3	To be signed by the applicant(s) / patentee (s) / authorised registered patent agent.	The information provided herein is correct to the best of my/our knowledge and belief. Dated this 20th day of August 2025

4	Name of the natural person who has signed.	Signature:

Signature Not Verified

Digitally Signed.
Name: Sudarshana Bandyopadhyay
Date: 20-Aug-2025 22:56:50
Reason: Patent Efiling

	Designation and official seal, if any, of the person who has signed.	Sudarshana Bandyopadhyay Regn. No.: IN/PA 2802 Agent for the applicant Phn No. 9748818235 Email: bandyopadhyay.sudarshana@gmail.com To The Controller of Patents, The Patent Office, At Kolkata

FORM 9

THE PATENTS ACT, 1970

(39 of 1970)

&

THE PATENTS RULES, 2003

REQUEST FOR PUBLICATION

[See Section 11A(2); Rule 24A]

We, SRJX RESEARCH AND INNOVATION LAB LLP, of the address Plot No - 3E/474, Sector-9, CDA, Post- Markat Nagar, Cuttack-753014, Odisha, India, hereby request for an early publication of our Patent Application No. _____ filed on 20 August 2025 under Section 11A(2) of the Act.

Dated this 20th day of August 2025

Sudarshana Bandyopadhyay
Regn No.: IN/PA 2802
Agent for the Applicants
Email: bandyopadhyay.sudarshana@gmail.com
Phn No: 9748818235

Signature Not Verified
Digitally Signed.
Name: Sudarshana Bandyopadhyay
Date: 20-Aug-2025 22:54:30
Reason: Patent Efiling

सत्यमेव जयते

INDIA NON JUDICIAL

Government of National Capital Territory of Delhi

₹100

e-Stamp

Certificate No.	:	IN-DL35961746213944X
Certificate Issued Date	:	16-Aug-2025 11:10 AM
Account Reference	:	IMPACC (IV)/ dl962703/ DELHI/ DL-ESD
Unique Doc. Reference	:	SUBIN-DLDL96270305293890128756X
Purchased by	:	SRJX RESEARCH AND INNOVATION LAB LLP
Description of Document	:	Article 48(c) Power of attorney - GPA
Property Description	:	Not Applicable
Consideration Price (Rs.)	:	0 (Zero)
First Party	:	SRJX RESEARCH AND INNOVATION LAB LLP
Second Party	:	ZAINAB SYED AND ASSOCIATES
Stamp Duty Paid By	:	SRJX RESEARCH AND INNOVATION LAB LLP
Stamp Duty Amount(Rs.)	:	100 (One Hundred only)

NOTARY R.V. Singh Advocate Reg. No.2262 Commission Expire On 24-10-2027 Area-Delhi GOVT. OF INDIA

Please write or type below this line IN-DL35961746213944X

NOTARY R.V. Singh Advocate Reg. No.2262 Commission Expire On 24-10-2027 Area-Delhi GOVT. OF INDIA

Statutory Alert:

1. The authenticity of this Stamp certificate should be verified at 'www.shcilestamp.com' or using e-Stamp Mobile App of Stock Holding Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate
3. In case of any discrepancy please inform the Competent Authority.

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Digitally Signed
Name: Sudarshana Bandyopadhyay
Date: 20-Aug-2025 22:52:36
Reason: Patent Filing

16-Aug-2025 11:10 AM 16-Aug-2025 11:10 AM 16-Aug-2025 11:10 AM 16-Aug-2025 11:10 AM 16-Aug-2025 11:10 AM 16-Aug-2025 11:10 AM 16-Aug-2025 11:10 AM 16-Aug-2025 11:10 AM
SRJX RESEARCH AND INNOVATION LAB LLP SRJX RESEARCH AND INNOVATION LAB LLP SRJX RESEARCH AND INNOVATION LAB LLP SRJX RESEARCH AND INNOVATION LAB LLP SRJX RESEARCH AND INNOVATION LAB LLP SRJX RESEARCH AND INNOVATION LAB LLP SRJX RESEARCH AND INNOVATION LAB LLP SRJX RESEARCH AND INNOVATION LAB LLP
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FORM-26
The Patents Act, 1970
(39 of 1970)
FORM FOR AUTHORIZATION OF A PATENT AGENT/OR ANY PERSON IN A MATTER OR PROCEEDING UNDER THE ACT
[See Sections 127 and 132; Rule 135]

I, **SRJX RESEARCH AND INNOVATION LAB LLP**, Indian, of the address SRJX RESEARCH AND INNOVATION LAB LLP, Plot No - 3E/474, Sector-9, CDA, Post- Markat Nagar, Cuttack-753014, Odisha, India, hereby authorize **Zainab Syed & Associates** having address 3E, Nawab Bhagwanpora, Lal Bazar, Srinagar, Jammu & Kashmir, 190023, India **(Mobile No.: +91 9748818235, Email: bandyopadhyay.sudarshana@gmail.com)** through **Ms. Sudarshana Bandyopadhyay (IN/PA 2802)** and **Ms. Meenu Sharma (IN/PA-2856),** registered Indian Patent Agents, to act on our behalf and to further appoint attorney(s)/agent(s) in connection with the filing and prosecution of our patent applications for grant of Letters Patent, filing of request for examination, filing request for amendment, recordal of change of name and address, ownership, change of address of service in India, renewal of patent, recordal of assignments, filing and defending oppositions and infringement actions, restoration of patents, registration of documents and such other actions and all proceedings under the Patents Act, 1970 and the Patent Rules, 2003 and all such proceedings before the Patent Office or the Government of India or any Court in India and all acts and things as the said attorney may deem necessary or expedient in connection therewith or incidental thereto.

We further request that all notices, requisitions and communication relating thereto may be sent to such person/s at the corresponding address mentioned below:

Ground Floor, S-456, LGF, Greater Kailash – II, New Delhi – 110048, India,

(Contact No.: +91 9748818235; Email: bandyopadhyay.sudarshana@gmail.com)

We, hereby, revoke all previous authorizations, if any, in respect of the proceedings.

NOTARY
R.V. Singh
Advocate
Reg. No.2282
Commission
Expire On
24-10-2027
Area-Delhi
GOVT. OF INDIA

We, hereby, assent to the action already taken by the said person/s in the above matter.

Dated this **14th day of August, 2025**

SRJX RESEARCH AND INNOVATION LAB LLP
Through:

Signature: Soumya Ranjan Jena

Name: Dr. Soumya Ranjan Jena

Company Seal: SRJX Research and Innovation Lab LLP
LLPIN: ACO-1435

To,
The Controller of Patents,
The Patent Office,
Kolkata

NOTARY
R.V. Singh
Advocate
Reg. No.2282
Commission
Expire On
24-10-2027
Area-Delhi
GOVT. OF INDIA

ATTESTED
Notary Public Delhi

16 AUG 2025

FORM 9

THE PATENTS ACT, 1970

(39 of 1970)

&

THE PATENTS RULES, 2003

REQUEST FOR PUBLICATION

[See Section 11A(2); Rule 24A]

We, SRJX RESEARCH AND INNOVATION LAB LLP, of the address Plot No - 3E/474, Sector-9, CDA, Post- Markat Nagar, Cuttack-753014, Odisha, India, hereby request for an early publication of our Patent Application No. _____ filed on 20 August 2025 under Section 11A(2) of the Act.

Dated this 20th day of August 2025

Sudarshana Bandyopadhyay
Regn No.: IN/PA 2802
Agent for the Applicants
Email: bandyopadhyay.sudarshana@gmail.com
Phn No: 9748818235

Signature Not Verified
Digitally Signed.
Name: Sudarshana Bandyopadhyay
Date: 20-Aug-2025 22:51:01
Reason: Patent Efiling

FORM 3

THE PATENTS ACT,

1970 (39 of 1970)

and

THE PATENTS RULES,
2003

STATEMENT AND UNDERTAKING UNDER SECTION 8

(See section 8; Rule 12)

1. Name of the applicant(s).	We, SRJX RESEARCH AND INNOVATION LAB LLP, Plot No - 3E/474, Sector-9, CDA, Post-Markat Nagar, Cuttack-753014, Odisha, India hereby declare:
2. Name, address and nationality of the joint applicant.	(i) that we have not made any application for the same/substantially the same invention outside India Or (ii) that we who have made this application No date _____ alone/~~jointly~~ ~~with~~ ....., made for the same/ substantially same invention, application(s) for patent in the other countries, the particulars of which are given below:

Name of the country	Date of application	Application No.	Status of the application	Date of publication	Date of grant
N.A.					

3. Name and address of the assignee	(iii) that the rights in the application(s) have been assigned to SRJX RESEARCH AND INNOVATION LAB LLP, Plot No - 3E/474, Sector-9, CDA, Post-Markat Nagar, Cuttack-753014, Odisha, India

Signature Not Verified
Digitally Signed.
Name: Sudarshana Bandyopadhyay
Date: 20-Aug-2025 22:51:01
Reason: Patent Efiling

	that we undertake that upto the date of grant of the patent by the Controller, we would keep him informed in writing the details regarding corresponding applications for patents filed outside India within six months from the date of filing of such application. Dated this 20th day of August 2025
4. To be signed by the applicant or his authorized registered patent agent.	 Signature. .....
5. Name of the natural person who has signed.	Sudarshana Bandyopadhyay Regn. No.: IN/PA 2802 Agent for the applicant Phn No. 9748818235 Email: bandyopadhyay.sudarshana@gmail.com
	To The Controller of Patents, The Patent Office, at Kolkata
Note.- Strike out whichever is not applicable;	

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