

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202511054641 A

(19) INDIA

(22) Date of filing of Application :06/06/2025

(43) Publication Date : 20/06/2025

(54) Title of the invention : A DEVICE FOR MONITORING CARBON FOOTPRINT IN BUSINESS OPERATIONS

(51) International classification :H04L0009000000, G06Q0030018000, H04L0009320000, G06Q0010063900, A61B0005000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention discloses a device (100) for monitoring carbon footprint in business operations, comprising sensor modules (101), an AI analytics engine (102), a blockchain ledger (103), and a visualization dashboard (104). The system detects real-time environmental metrics, converts them into carbon equivalents, and ensures data integrity through blockchain. It provides actionable insights, alerts, and ERP integration (105) to enable comprehensive emissions tracking and reduction strategies for businesses seeking environmental compliance and operational sustainability.

No. of Pages : 13 No. of Claims : 5