

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311054279 A

(19) INDIA

(22) Date of filing of Application :12/08/2023

(43) Publication Date : 08/09/2023

(54) Title of the invention : HIGH-THROUGHPUT PARCEL HANDLING SYSTEM

(51) International classification :H04L0045000000, G06Q0010080000, B07C0003080000, G16H0040200000, G08G0001000000

(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

(71)Name of Applicant :

1)Chitkara University

Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

2)Bluest Mettle Solutions Private Limited

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)MISHRA, Rahul

Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

2)PANDEY, Sakshi

Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

3)MANTRI, Archana

Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :

The high-throughput parcel handling system (100) is designed to efficiently handle a large volume of parcels. At the core of the system is a conveyor belt (104) that transports parcels from the input point to a series of sorting stations (106). Each sorting station is equipped with sensors and cameras, enabling the identification and tracking of parcels as they move through the system. To coordinate the operation of the sorting stations, the system utilizes a central control unit (108). This control unit receives data from the sensors and cameras at the sorting stations in real-time. The central control unit analyzes this data to identify and track each parcel accurately. Once the central control unit determines the final destination, it coordinates the routing instructions for each parcel. These routing instructions are then communicated back to the sorting stations, guiding them in directing the parcels to the appropriate output stations (110). The output stations are strategically placed to facilitate the efficient delivery of parcels to their final destinations.

No. of Pages : 19 No. of Claims : 10