(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/12/2024

(21) Application No.202411102861 A
(43) Publication Date : 03/01/2025

(54) Title of the invention : DIVIDER CROSSING DEVICE FOR EMERGENCY VEHICLES

(51) International classification :H04W0004900000, B25J0017020000, E05B0001000000, A61G0001020000, A61B0017340000
(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 :Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura ---------- ----------
2)Chitkara Innovation Incubator Foundation
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr. Sanjana
Address of Applicant :Assistant Professor, Department of Pharmacology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura ---------- ----------
2)Dr. Thakur Gurjeet Singh
Address of Applicant :Dean, Department of Pharmacology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura ---------- ----------
3)Soumarshi Das
Address of Applicant :Department of Pharmacology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura ---------- ----------
4)Prabir Maity
Address of Applicant :Department of Pharmacology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura ---------- ----------

(57) Abstract :
A divider crossing device for emergency vehicles, comprising a base plate 101 with a sliding mechanism 102 for adjustment to width of the divider, a top plate 103 displaced on the base plate 101 to provide a sturdy surface for the vehicle, and a pair of flaps 104 attached to the lateral edges of the top plate 103 via rotatory joints 105 with ball bearings for smooth rotation, providing sloped surfaces for the vehicle to climb, a hydraulic joint 106 located underneath each rotary joint 105 with hydraulic cylinders in a hinged manner to actuate the rotary joints 105 and support the vehicle's weight during crossing, a wireless communication unit to enable remote actuation of the hydraulic joint 106, a lock and handle assembly 107 for portability, and a battery 109 to energize the hydraulic joint 106 and wireless communication for ensuring autonomous operation and easy deployment in emergency situations.

No. of Pages : 22 No. of Claims : 8