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1)Chitkara University

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)SINGH. Dhirai

3)MANTRI, Archana

(57) Abstract:

Embodiments of the present disclosure relates to a system (100) and method (300) for deploying a modular aerial vehicle with expandable deployable components. The system (102) comprises a processor (202) coupled to a memory (204). The memory (204) stores processor-executable instructions. The processor (202) is configured to attach a plurality of expandable deployable components to one or more expansion slots of a base platform. Next, the processor (202) is configured to establish one or more communication channels and one or more electrical connections between the base platform and the plurality of expandable deployable components. Thereafter, the processor (202) is configured to configure the plurality of expandable deployable components to customize a functionality of the modular aerial vehicle. In the end, the processor (202) is configured to detach outdated expandable deployable components to attach upgraded expandable deployable components to the one or more expansion slots based on the configuration.

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